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Chicago
July 1888
H. W. H.

1. The first part of the document is a list of names and addresses of the members of the committee.

MAYORS' ANNUAL MESSAGE

SIXTEENTH ANNUAL REPORT

DEPARTMENT OF

PUBLIC WORKS

CITY COUNCIL OF THE CITY OF CHICAGO.

Fiscal Year Ending December 31,

1891.

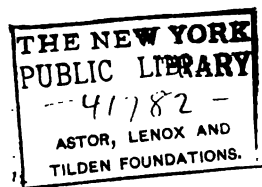
CHICAGO:
J. H. H. & C. CO. PRINTERS.
1891.

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MAYOR'S ANNUAL MESSAGE
AND THE
SIXTEENTH ANNUAL REPORT
OF THE
DEPARTMENT OF
✓
PUBLIC WORKS
TO THE
CITY COUNCIL OF THE CITY OF CHICAGO,
FOR THE
Fiscal Year Ending December 31,
1891.

CHICAGO:
CAMERON, AMBERG & CO., PRINTERS,
1892.



MESSAGE
OF
MAYOR WASHBURNE
1892

MESSAGE OF MAYOR WASHBURNE.

CITY OF CHICAGO, MAYOR'S OFFICE, }
April 18, 1892. }

To the Honorable the City Council:

GENTLEMEN:—One year ago the present administration assumed its duties, and pursuant to the provisions of our charter, I to-day have the privilege to present to your Honorable Body my first annual official communication.

At the outset, I desire to welcome as co-laborers one-half of the Council which has been but recently elected, and to express the belief that a closer acquaintance will result in harmonious and united action in the interest of the City, and of good government during the coming year. At the same time I wish to thank those members of the Council who now retire, as well as those who remain for another year, for the many courtesies they have extended as individuals to the administration.

The year upon which we have just entered bids fair to be one of the most historic in the record of this City, and I can not too strongly impress upon your Honorable Body the responsibility which rests both upon you and this administration in the work which is imposed upon us of preparing our City for the great international enterprise, the World's Columbian Exposition, which is now almost ready to be opened, and which will be dedicated during the coming year.

At no time in the history of Chicago has the necessity of loyal co-operation between the Council and the various departments of the administration and an honest and earnest endeavor for the advancement and improvement of our City

been more apparent than it is at present, or more imperative than it will be in the immediate future. We are required to be ready to receive the World as the guest of Chicago; and it lies with us to make that reception a credit to our municipality, or otherwise. We can not afford to allow party strifes, or personal considerations to stand in the way of such an administration of the trusts reposed in us as shall do credit to our City when the eyes of the world shall be upon us, or to retard in any manner the great work which now confronts us. While it is true that we will be restrained from accomplishing many reforms and improvements in existing affairs, the desirability of which we all recognize, by reason of an insufficient income, it is still our duty to so administer affairs as to obtain the best results with such means as are placed at our disposal.

It is not my intention at this time to make any very extended reference to the work which has been accomplished during the past year; the condition of the City financially, physically, and from the standpoint of public morality speaks for itself.

The reports of the various heads of departments will bear ample testimony to the fact that we have not been idle and that the best that could be done has been done with the means at our disposal.

I beg your indulgence however for a few moments to compare the condition of present affairs with that of one year ago, and consider suggestions for advancement and improvement, and for certain reforms, the necessity for which is pressing and cannot be overlooked.

When this administration came into power one year ago it was confronted by the fact that the City was in a deplorable financial condition. The balance in the City Treasury January 1, 1891, was \$567,555.32. This was the lowest point reached by the City financially for several years past, and it was therefore necessary that our resources should be husbanded and our affairs administered with the utmost economy. This stringency compelled us to forego much in the way of needed improve-

ments, and prevented the citizens from receiving the benefit thereof. By economizing our finances we tided over the year and succeeded in accumulating a balance to the credit of the City, which was on January 1, 1892, \$1,968,722.19. The bonded debt of the City on January 1, 1892, was \$13,530,350.00; water certificates, \$1,000,000.

There is standing to the credit of the Sinking Funds, which can only be used for the redemption of bonds, \$378,666.59.

The total receipts for the year ending December 31, 1891, were as follows:

Burr, Jonathan, Fund.....	\$	1,722	24
Building Inspection Department.....		59,244	70
Fines, Police Courts.....		76,558	14
Cost of Tax Sales.....		149	35
City Markets.....		4,792	95
Contingent Fund.....		3	50
Department of Public Works.....		692,897	88
Fire Department.....		6,755	09
Fees.....		1,550	05
General Fund.....		1,410,127	70
Harrison and Tree Medal Fund.....		48	80
Health Department.....		161	50
House of Correction.....		61,812	79
Wharfing Interest.....		1,219	32
Licenses.....		3,382,453	48
Police Life and Health Insurance Fund..		200.00	
Police Department.....		31,294	64
Pounds.....		3,556	88
Public Library.....		6,928	95
Rents.....		27,495	90
Refunding Loan Account.....		670,700	00
Sewerage Fund.....		171,733	51
School Fund.....		2,400,440	18
School Tax Fund.....		351,643	75
Special Assessment Fund.....		6,407,489	14
Street Lamp Fund.....		97,855	56
Suspense Account.....		5,296	77
Taxes.....		9,200,090	15
Water Fund.....		4,456,337	37
Total.....		\$29,550,560	29

The total expenditures for the year ending December 31, 1891, were as follows:

Burr, Jonathan, Fund.....	\$	1,665	13
Building Inspection Department.....		43,314	69
Chicago and South Side Rapid Transit Railroad Company.....		100,000	00
Contingent Fund.....		17,566	62
Cost Tax Sales.....		3,316	46
Cost Collecting City Taxes.....		118,216	54
City Markets.....		2,113	99
City Cemetery.....		120	80
City Clerk's Office.....		12,578	59
City Treasurer's Office.....		38	57
Department Public Works.....		2,681,832	30
Election Expense.....		88,465	32
Erring Woman's Refuge.....		3,456	50
Fire Department.....		1,401,529	38
General Sinking Fund.....		50	60
General Fund.....		1,378,063	90
Health Department Fund.....		457,856	81
House of Correction.....		93,288	86
House of Good Shepherd.....		3,456	50
Interest Account.....		506,360	50
Illinois Humane Society.....		116	00
Judgment Account.....		48,903	04
Legal Expense.....		24,861	04
Police Life and Health Insurance Fund.....		421	10
Police Fund.....		2,623,239	45
Police Courts.....		3,357	29
Printing and Stationery.....		16,118	44
Pounds.....		2,435	95
Public Library Fund.....		109,633	79
School Fund.....		2,399,480	27
School Tax Fund.....		4,287,164	73
Special Assessment on City Property...		1,887	02
Special Assessment Fund.....		6,222,900	68
Street Lamp Fund.....		803,525	71
Sewerage Fund.....		558,458	31
Salaries.....		180,151	87
Suspense Account.....		451	65

Special Deposit Fund.....	\$	1,000 00
Washingtonian Home.....		27,500 00
Water Fund.....		3,891,033 43
Total.....		<u>\$28,115,931 83</u>

In this connection I would suggest the desirability of taking some action toward bringing about legislation amending the law governing our present method of assessment and collection of taxes. Under the existing law we have seven townships which maintain a separate set of officers, each withholding from the treasury of the City to the point of litigation annually the moneys collected for the use of the municipality. The unseemly scramble to collect interest upon the tax funds, which is the direct outgrowth of this condition of affairs, brings the credit of the City into disrepute and subjects the administration, and particularly the City Comptroller, to much undeserved criticism. The abolishment of the present township system, and the centralization of the entire matter under the control of one set of responsible officers, would secure a more equitable assessment and a more prompt turning over of the moneys collected. Incidentally it might be mentioned that with our City and County limits so nearly identical it is the opinion of many thinking citizens that the abolishment of County and City lines and the union of both under one form of municipal government would result in a great benefit to the community. The City of Philadelphia embodies the entire County in which it stands, as does the City of New York.

It is my opinion that if the same condition prevailed here, it would eradicate much that is reprehensible in the handling of the public funds, do away with a number of independent offices which are used for the furtherance of political or personal ends and to the hinderance of good government, remove irregularities and produce greater uniformity in the burdens of taxation. The able and efficient City Comptroller has experienced much difficulty arising from the system now in vogue, to which he will no doubt advert in his annual report.

In giving a short review of the work of the different departments I will take up the Building Department first, for the reason that it is invested with a peculiar importance owing to some recent and exceptional and unlooked for occurrences.

Notwithstanding the fact that there has been considerable adverse criticism of this office, I am convinced that the work of the Building Department for the past year has been exceedingly satisfactory. Its chief officer, Mr. Louis O'Neill, is a man of high personal character, of unquestioned integrity and fully qualified by a long life in the building business for his present position. That he has been subjected to hostile criticism does not and cannot impeach his character before those people who know his honorable career, and the record of his department for the past year will, I am sure, upon investigation demonstrate the fact that at no time within the history of the City has that department on the whole been conducted so satisfactorily to the citizens as it has been under his administration. The report of the Building Commissioner shows that during the year 1891, 11,805 buildings, aggregating a frontage of 282,762 lineal feet, or 53 miles, were erected, at a cost of \$54,000,000, the largest record in the line of building ever made in this City. These figures show the enormous amount of work thrown upon the shoulders of this department, and that there have been so few complaints is, in my judgment, greatly to its credit. It is a matter of universal regret and sorrow that a great calamity has recently fallen upon some of our citizens, bringing death and destruction to otherwise happy homes. Further full and dispassionate investigation into the causes of the Pearce street disaster, deplorable as we all consider it to be, I am of the opinion, will result in clearing the Building Department of any censure in the premises.

Before passing final judgment upon a worthy man with an honorable name and record, he should be afforded a fair and unbiased hearing.

DEPARTMENT OF PUBLIC WORKS.

The work of this department, as shown by the exhaustive report of the Commissioner, in quantity and quality far surpasses the achievement of any previous administration of the department.

There were during the year 117 miles of streets paved, 116 miles of streets improved, 168,882 square yards of pavement laid by the street car companies and 152,621 square yards of street pavement repaired by the City, making a total of paved streets in the City 744 miles, and leaving the total of all kinds of streets in the City 2,334 miles. There were constructed 603 miles of sidewalk and 245 miles of sidewalk repaired, while 7,160 miles of streets were cleaned and 181,398 house connections put in as against 154,000 last year. The total cost of the Water Works to the City to December 31, 1891, was \$19,061,000.12. Total operating expenses and maintenance of the Water Works up to December 31, 1891, including interest on the bonded debt, \$18,084,189.55. Total Water Works income to December 31, 1891, 27,500,511.37; difference between income and expenditure, \$9,416,321.82. The amount of water taxes for the year was \$2,364,433.09. The amount of water furnished was 63,552,000,000 as against 56,338,000,000 last year. Excellent progress has been made on the four-mile tunnel, 4,339 lineal feet of which has been constructed to January 1st, this year. Considerably over half of the Lake View tunnel was constructed by January 1st, and the two-mile crib put in place. The Thirty-fifth street and Ashland avenue tunnels, which supply the Stock Yards, the Jefferson street connecting tunnel, the Fourteenth street pumping works and the new 100-foot land tunnel for the World's Fair supply, have been constructed and put in proper working order, while the Lake View supply has been largely increased by improvements made on the intake. A number of bridges and viaducts have been started on their way toward completion, and by means of extraordinary efforts the administration compelled the completion of the Madison street bridge, thereby

restoring to the great West Side its most important connection with the South Side of the City. Over 103 miles of sewers were constructed as against 72 miles last year, making the total number of miles of sewerage in the City 888. 13,668 catch-basins were cleaned, 3,630 raised to grade and 62 miles of house drains laid. I desire to call your attention to that part of the report touching the management of the river and harbor, by which it will be seen that the lowest level ever reached by the lake since 1854 was reached during the past year. Owing to circumstances over which we have no control it is unlikely that there will be much relief from this during the year 1892, but notwithstanding the low water the navigation of the City has increased 746,847 tons, and while by the dredging operations 260,435 cubic yards of material was removed from the Chicago river, there was saved 81 per cent., or a total of nearly \$39,000, in the cost of this work as compared with the previous year.

The city electric light system has been extended in a most practical manner by the substitution of 993 arc lights for 3,894 gas lights, the expense of lighting being thus largely reduced while better light is given to the public.

There has been much complaint, and unjustly so, during the past year concerning the quality of our water supply. There can be no question but that the quality of the water has not been all that it should be, but this is a matter for which neither the Water Department nor the City Administration can be held accountable, as it has for years been a problem to the solution of which our best citizens, and indeed the public at large, have unavailingly directed their attention. These complaints will continue, and the City's water supply will be contaminated to a slight degree during the spring floods until some permanent and proper plan be discovered whereby the City's drainage can be kept from the lake and disposed of, as in foreign cities, through a fertilizing process, or by the completion of the drainage plan, often termed the "Drainage Scheme."

New pumping works should be at once built in the north-western portion of the City, similar to the pumping station at Ashland avenue and Twenty-second street, to give greater fire protection and accommodation to a rapidly growing section of our City. I am happy to be able to assure you and the public, that from the rapid progress made on the new tunnels, the water supply during the coming year, we have every reason to hope, will be much improved.

In the Water Office the system of assessment has been improved, and a re-inspection of the whole City of Chicago is being completed, whereby the water rates of every building in the City will be shown, and the revenue of the department largely increased during the year. The Meter Department has been thoroughly reorganized, and the method of book-keeping and collection greatly improved upon.

Considerable comment and discussion has, for some time past, arisen in regard to the question of street cleaning, and, in this connection, I cannot do better than repeat some observations which I made in a recent communication to the La Salle Club of this City. The great difficulty seems to be, not a difference of opinion between the administration and the public, but a lack of funds upon the part of the City to properly perform this work, which we realize is necessary. If the citizens of Chicago will themselves aid to the extent of keeping newspapers and house dirt from the streets, they will do much toward accomplishing this result. If the owners of large buildings will compel their janitors to cart away the accumulated dirt of large office buildings, instead of throwing it in our streets surreptitiously at break of day and immediately after the streets have been swept and cleaned, they will contribute much more to the cleanliness of the City than by a large amount of talk and very little action.

It is easy enough to pass resolutions, and more easy to know what ought to be done, but until the City of Chicago can have many times the present appropriation, it can do nothing

more toward the proper cleaning of its streets unless a public spirit is aroused through which each individual will contribute, so far as it in his or her power lies, toward keeping from the streets much dirt that now goes there. This statement applies as well to the cleanliness of the alleys as to the cleanliness of the streets.

A little less complaining and an honest effort on the part of fault-finders to contribute their proportion as citizens to this end will accomplish what they ask. A little more honesty in the payment of just taxes, by corporations and large property owners, would also go far toward placing at our disposal means wherewith to improve the existing condition of affairs.

For the purpose of placing our streets in good repair within the limits of Chicago avenue on the north, Ashland avenue on the west, and Twenty-second street on the south, a little less than one year ago I called a meeting of the aldermen representing the wards within these boundaries. It was then agreed that ordinances should be passed for the immediate improvement and repairing of all streets within this territory. Unfortunately, however, sixty out of sixty-three ordinances for the improvement of streets within the territory named, which had been agreed upon, were defeated, when subsequently brought before the Council for action.

This leaves us, at this time, with prominent streets in the busiest portion of the City with pavements unfit to drive over, and in a most unsightly condition. I trust that we shall be enabled to take up this matter during the ensuing year and crowd it through in order that streets of this character may be put in proper condition.

This brief review but lightly touches the features of the Commissioner's Report, and when the depleted condition of the fund appropriated for this department, at the time that the present administration took control of it, is taken into consideration, it will be evident with what ability, careful economy, and consideration of the public interests its affairs have been conducted.

HEALTH DEPARTMENT.

I desire to refer you to the excellent report furnished by the Commissioner of Health, wherein it can be seen that his department has accomplished much that was not accomplished in the past. The general health of the City for the past year has been better than for many years previous. The department is doing all within its power and means to give the public proper sanitary service, but it will be impossible to clean alleys as often as they should be cleaned until the City is enabled to find a short haul for the accumulations made in the prosecution of this particular work. The railroads, which have obtained from this City so many grants and franchises, declined to carry garbage beyond the City limits. The contractors find it impossible to have their teams make more than two or three trips daily, whereas with a short haul to a furnace or crematory, where these accumulations might be destroyed, or to a railroad which might carry it beyond the City limits, the contractors, for the same price, could do double or treble the work daily, thereby giving to the public a much-needed relief.

Before I dismiss this subject I will call the attention of your Honorable Body to a matter which demands your immediate attention. I refer to the necessity of at once taking the proper steps looking toward the establishment of a contagious disease hospital. It is neither just nor to our credit as citizens that a municipality with the wealth and resources of the City of Chicago should be so far behind the times as to be without a single institution in which persons afflicted with diseases of a contagious character can be housed and properly cared for. The lack of such an institution subjects the community to great danger. The time has long since arrived when the erection of a contagious disease hospital, in which patients, stricken down by diseases of this nature, can be isolated, their wants attended to and the danger of epidemic thereby removed, has become a positive and pressing necessity.

POLICE.

The Police Department has been greatly improved during the past year. While numerically it has not grown in proportion to the growth of the City and consequent needs of the public, owing, as in the case of so many other departments, to a want of sufficient funds, its method of construction has been so changed and so many reforms have been introduced in the force, as to raise the standard of its efficiency far above any point which it has ever reached before. The reforms which I have introduced, with the able assistance of its most capable Chief, are such as to not only be of benefit to the force but also to the community. We have established a system of examination, both written and physical, which is eminently calculated to improve both the mental and physical character of the force. In pursuance of the platform upon which this administration was elected, the police force has been, as far as it has been possible, held aloof from politics, the energies of the department being entirely directed toward its legitimate functions, the preservation of good order and the enforcement of the law. It has taken many months to become acquainted with the intricacy of police management, discipline and intrigues, but I have every reason to feel assured that the coming year will demonstrate the wisdom of the changes which have been made, and that the public will thereby receive from the department better protection and more intelligent service.

Notwithstanding the assertions derogatory to the police force, which periodically emanate from certain quarters, I hold, and I believe your Honorable Body will agree with me, that the force is composed of as fine and as brave a body of men and officers as any in the world. The faults of the department have arisen, not so much from incapacity as from want of proper organization, discipline and respect for superior officers. I have refused to reinstate any officer discharged for drunkenness or insubordination, and have supported, and shall continue to support, every superior officer as against any subordinate.

The force is rapidly improving in usefulness and efficiency, and through the reforms to which I have adverted, will no doubt continue to so do, until by the advent of the World's Fair the police force of Chicago will be a creditable one. To bring a police force up to the proper standard requires a long period of patient, firm and intelligent discipline. The past year has in a measure been one of preliminary work, which will enable us and our successors to carry forward the improvement, until our force reaches the proper standard.

GAMBLING.

The suppression of public gambling in a great metropolis and cosmopolitan community like Chicago is a matter easier undertaken than accomplished. Until the three great inherited and inborn passions of man, licentiousness, gambling and intoxication, have become eradicated, by education or birth, no statute laws can entirely suppress the social evil, gambling and intemperance. When our hypocrites cease to extol their own virtues in the synagogues, and cease to foster vice in secret by leasing to prostitutes, gamblers and law-breaking saloon-keepers for the sake of the increased revenues received thereby, then and then only, can we hope to view the millennium; until then we can no more turn back the tide of man's passions by laws than could Canute turn back the advancing ocean by his command. Notwithstanding the difficulty of dealing with this problem, however, I venture the opinion that the present administration has done more than any one of its predecessors towards the suppression of public gambling. The gaming hells which in the past were run with wide open doors on our most public thoroughfares have been closed. The gaming instruments have been confiscated, and the rank and file of the army of professional gamblers which has from time to time overrun the City find themselves without an occupation.

EDUCATIONAL.

In this department the usual high standard of efficiency has been maintained and the usual rate of progress outstripped.

The number of pupils enrolled to date is 149,804, an increase of nearly 10,000 over the year previous. There have been completed and opened during the year fifteen schools and school buildings distributed as follows:

North Division—Knickerbocker School.

West Division—Ryerson, Bancroft, John Crerar and Komensky schools, and additions to the Ellen Mitchell, Carpenter and Foster schools.

South Division—Auburn Park, Beale, Everett, Champlin and W. C. Goudy schools, and additions to the Auburn Park, Sherwood and Forestville schools.

There has also been erected and completed during the year a workshop for the English High and Manual Training School, on the old High School lot, Monroe street, east of Halsted street.

These will be ready for occupancy, at the opening of the next term, May, 1892.

The Northwest Division High School, corner of Davis street and Potomac avenue, will be ready for occupancy September, 1892.

Contracts have also been let for the following buildings:

Greenwood avenue, corner Greenwood avenue and Forty-sixth street.

Holden, corner Deering and Thirty-first streets.

Geneva street and Washtenaw avenue.

Washington Heights, corner One Hundred and fourth and Charles streets.

Harrison street, near Sacramento avenue.

The report of the department shows that there is outside the school buildings a seating capacity of 16,740, in 201 rented buildings.

This indicates a serious lack of school accommodations, to which your Honorable Body should direct your earnest attention in making school appropriations in the future.

PUBLIC LIBRARY.

During the last year we have had the satisfaction to learn that the Board of Directors of the Public Library have decided upon the erection of a new and beautiful building, in which the institution will shortly be domiciled and which will be a credit and an ornament to the City. Our Public Library to-day circulates more books than any similar institution in the country. It contains above 170,000 volumes and the supply is increasing at the rate of 11,000 annually. Its circulation during the past year was 1,284,593. There have been established for the convenience of the public 26 delivery stations from which books are drawn, and five branch reading rooms which are supplied with periodicals, general reference books and works upon science and other useful matter. We have reason to congratulate ourselves upon the great work which this excellent institution has done and is doing.

INTRAMURAL TRANSIT.

During the last year your Honorable Body selected a committee to investigate the question of intramural transit in general and the subject of elevated terminals in particular. This work was not undertaken one moment too soon. Traffic in the business portions of the City had become so congested as to be a menace to life and property and an impediment to trade and commerce. The committee suggested an ingenious plan for temporary relief and the appointment of a committee of experts to deal with the question of permanent relief. Pursuant to this recommendation you authorized me to appoint a committee of three experts, which I have done. This committee, which is known as the Chicago Terminal Commission, is in the East investigating the question of elevated terminals, which is the only proper and final solution, not only of the grade crossing question but the entire problem of intramural transit. When they return I confidently anticipate they will be in a position to present to your Honorable Body such a report and recommendation as will place the City Council and administration

in a position to take up and dispose of this question in the speediest and most practical manner.

The citizens of the West and South Sides have reason to congratulate themselves upon the passage by your Honorable Body of a large number of ordinances for so-called cross-town street railroad lines. This action of the City Council will unquestionably result in the development and general improvement of those parts of the City which have for many years been held back through lack of proper accommodation in the way of transit.

By a recent ordinance the Chicago City Railway Co. was authorized to cable a portion of Michigan avenue, thereby cutting off the only street connecting the North and South Divisions not turned over wholly or in part to the street car companies. The necessity for thoroughfares connecting the different divisions of the City and not monopolized by the street railroads is daily becoming more and more apparent. While it is true that Chicago is a commercial city, and that its growth and wealth are due to this fact, it is also true that the time has arrived when some special provisions must be made for other considerations. Some means must be devised for pedestrian and vehicular traffic which under present conditions are rapidly becoming impossibilities. I would suggest that in the near future you consider this matter seriously, with a view to taking such action as will obviate the bridge nuisance and at the same time relieve pedestrians and occupants of vehicles from the danger to life and property now existing upon so many of our thoroughfares.

FIRE DEPARTMENT.

The Fire Department as usual has maintained itself in the front rank of the City departments, and to-day as always stands unequaled by any similar department in the world. The total number of men is 990, being an increase of 66 over the force of last year. The fire appliances have also been largely increased and 3,353 fires were conquered as against 2,755 last year.

HOUSE OF CORRECTION.

I cannot too strongly urge upon the City Council the necessity of taking some action during the coming year to relieve the House of Correction from its present over-crowded condition, and I would suggest that your Honorable Body appoint a committee not exceeding five whose duty it shall be to investigate this matter and suggest some means to this end.

I would recommend a careful perusal by the members of the Council of the comprehensive report submitted by the Superintendent, from which it will be seen that the over-crowding which has been going on has rendered the place little better than the famous Black Hole of Calcutta. This fact is not owing to its management, which is the best possible under the circumstances. It is due to the limited quarters. At the present time three prisoners are compelled to sleep in one cell, with only one cot, each cell being 6x4 feet in size. Although the state of affairs herein referred to has been repeatedly called to the attention of the authorities by the Superintendent it has not been remedied because the City has not the money wherewith to do it. Children absolutely innocent of crime or knowledge of crime are there committed daily to intercourse and association with the most hardened and contaminating criminals. It is time that this community should take up this matter in earnest and see to it that boys should not be subjected to the corrupting influences which make criminals instead of reforming vicious and truant children. As the matter now stands the House of Correction is a school for vice rather than what its name signifies. While the institution has been cramped for means during the year, many excellent changes and improvements have been made. A school for the small boys has been established and in successful operation for nearly a year. There can be no question of the good accomplished by this department ; but it does not yet accomplish the work that the people have a right to expect from it. The system of commitment is wrong, both as to the boys and

in a position to take up and dispose of this question in the speediest and most practical manner.

The citizens of the West and South Sides have reason to congratulate themselves upon the passage by your Honorable Body of a large number of ordinances for so-called cross-town street railroad lines. This action of the City Council will unquestionably result in the development and general improvement of those parts of the City which have for many years been held back through lack of proper accommodation in the way of transit.

By a recent ordinance the Chicago City Railway Co. was authorized to cable a portion of Michigan avenue, thereby cutting off the only street connecting the North and South Divisions not turned over wholly or in part to the street car companies. The necessity for thoroughfares connecting the different divisions of the City and not monopolized by the street railroads is daily becoming more and more apparent. While it is true that Chicago is a commercial city, and that its growth and wealth are due to this fact, it is also true that the time has arrived when some special provisions must be made for other considerations. Some means must be devised for pedestrian and vehicular traffic which under present conditions are rapidly becoming impossibilities. I would suggest that in the near future you consider this matter seriously, with a view to taking such action as will obviate the bridge nuisance and at the same time relieve pedestrians and occupants of vehicles from the danger to life and property now existing upon so many of our thoroughfares.

FIRE DEPARTMENT.

The Fire Department as usual has maintained itself in the front rank of the City departments, and to-day as always stands unequaled by any similar department in the world. The total number of men is 990, being an increase of 66 over the force of last year. The fire appliances have also been largely increased and 3,353 fires were conquered as against 2,755 last year.

HOUSE OF CORRECTION.

I cannot too strongly urge upon the City Council the necessity of taking some action during the coming year to relieve the House of Correction from its present over-crowded condition, and I would suggest that your Honorable Body appoint a committee not exceeding five whose duty it shall be to investigate this matter and suggest some means to this end.

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older inmates, and a large portion of the expense of the institution should be removed from the shoulders of the taxpayers by making it possible to obtain better results from the labor of the prisoners.

The need of a training school for very young boys, where the mind and hand could both be turned toward a life of usefulness and honorable manhood, is so evident that it will not admit of an argument.

The sanitary condition could not be better. As an evidence there were 9,082 prisoners in the institution during the year and but 13 deaths occurred out of all this number.

LAW DEPARTMENT.

The work of the Law Department has been, during the year, conducted in a most satisfactory manner. Judgments against the City on account of damages growing out of the construction of viaducts have been kept down to an unusually small amount. Good work has been done in the matter of suits against the City for damages growing out of personal injuries. The constant expansion of the City has entailed an enormous amount of work upon the special assessment attorneys, and the determined stand taken by the gamblers and other classes of persons not disposed to obey the laws has rendered the work of the Prosecuting Attorney's office very arduous.

Perhaps the most important results accomplished by the Law Department has been the decisions obtained in the courts of last resort, greatly strengthening and fortifying the control by the City of its streets and public grounds at railway crossings and curtailing and abridging the rights of the railroads at such points. The fact that the various railroads approach so close to the center of the City, together with the increasing congestion of the streets, has brought the City and the railroads, during the past year, in many cases, into the sharpest legal conflicts with each other. This has been illustrated by one or two notable cases. The Illinois Central Railroad Company, in one

suit, decided by the Supreme Court, very strenuously contested the right of the City to condemn a street crossing at grade over its right of way, but was signally defeated by the decision of the Supreme Court.

The North-Western Railway Company, in an equally interesting case, insisted upon damages amounting to \$18,741.00 for opening West Taylor Street across its right of way, but the trial court awarded \$1 as damages, and the Supreme Court after a protracted contest sustained the judgment of the lower court and held that the City was not liable for any damages to the railroad company growing out of the exercise by the City of its power and duty to protect the property, health, safety and lives of the people.

These two cases go very far toward establishing a position taken by the present able Corporation Counsel that the City has ample legal power to meet the approaching exigencies in the matter of street and railway traffic, by requiring all railroad companies to remove their tracks from the grade of the streets. It will be readily seen that in coming years this power firmly established on the part of the City will be of the greatest possible moment as affecting the safety and lives of the people, and that any victory gained by the City looking in this direction is one of much importance.

MISCELLANEOUS.

Not quite one year since, by order of the City Council, the Mayor, Comptroller and Chairman of the Finance Committee were empowered to negotiate with the gas companies which supply most of the light now used by the City, with the view of obtaining a reduction in the price of gas and as equitable a settlement as possible of the subjects then in controversy between the gas companies and the City. These negotiations occupied several weeks, and after much disagreement and discussion the committee succeeded in obtaining from the gas companies the most favorable settlement ever secured from the Chicago Gas Combine. Under the terms of this settlement the gas companies

agreed to pay to the City of Chicago the sum of $3\frac{1}{2}$ per cent of their gross receipts annually, it being provided, however, that at no time should the amount to be paid into the City Treasury annually be less than \$150,000. Under this agreement the City received the sum of \$152,845 during the year just past. In addition to this the gas companies were obliged to consent to a reduction in price of gas to consumers of five cents per thousand cubic feet per annum to each consumer, from the year 1893, and a further reduction of five cents per 1000 feet each year until the price reaches \$1.00 per thousand feet. A substantial reduction in the price of gas to the City was also obtained.

The smoke nuisance is still with us and although much has been done towards its abatement it cannot be entirely suppressed. No doubt the evil may be mitigated by a continual prosecution of manufacturers and others who use power, but its absolute abatement cannot be expected under existing circumstances and conditions. Experiments are now being made to abate this nuisance upon boats on our river and I am told promise success.

Many complaints having come to me with reference to extortion on the part of drivers of cabs and other passenger vehicles for hire, I caused an ordinance to be drawn up, which your Honorable Body passed, whereby I have every reason to hope the public shall receive a better cab service at more moderate terms and which will terminate these complaints from a victimized community.

I propose to introduce as soon as possible, and with your assistance put into practice, a measure which I hope will tend to check, if not entirely eradicate, a rapidly increasing evil, namely the growth of the so-called massage parlors and Swedish movement cure establishments. While many of these institutions are conducted in a proper and decent manner, nevertheless under the guise of bath houses, electric treatment establishments, etc., houses of prostitution have

invaded residence and other respectable portions of the City. The police have not been able to suppress these places for the reason that they are conducted under all the appearances of respectability. The authorities, however, are informed by numberless complaints weekly of the true character of most of these establishments. In order to correct this evil, which is far greater than my time will now permit me to discuss, I suggest as a remedy the passage of an ordinance, that all bath houses, massage parlors and establishments of that character shall be required to take out a license at a nominal figure. That such licenses be granted only on the recommendation of the Superintendent of Police, and that such licenses may be revoked also on his recommendation. That for violations of the ordinances a fine of not less than \$50.00 nor over \$100.00 be imposed. This will obtain free and frequent access to these places for the police, whose duty it will be to see that they are conducted decently under penalty of the license being revoked and the establishment closed up.

During the past year a boiler ordinance has been drawn up* by the Law Department with the advice and assistance of a number of experts who are familiar with the requirements of the case. This ordinance, which now awaits passage by your Honorable Body, will give better service from this department and greater security to life and property.

The building ordinance which is also defective and does not meet the present requirement should also be amended. There are a number of other ordinances of the City which through lapse of time and changing circumstances have become defective.

I think no better work can be done by the Council during the coming year than to appoint committees who, with the assistance of citizens and experts in the particular line covered by each ordinance, would remodel such defective ordinances so as to make them of value to the City and calculated to reach the required ends.

PERSONAL.

I now desire to offer a few remarks upon one or two subjects, which properly find place here.

When I assumed the duties of my office I felt convinced that it was neither right nor decorous for the executive branch of the City Government to preside in the legislative branch. I was then and am now of the opinion that our form of municipal government ought to be patterned in this respect after that of our National Government. The founders of the latter, those far-seeing and wise patriots who evolved and framed our Constitution, a Constitution which has lived and added to its strength for more than a century, admitted it unwise and improper that the Chief Executive, whose power is simply that of review, should preside in the primary stages of legislation. The same rule has been adopted in our State legislative organizations, and by almost if not every municipal form of government in this country. The wisdom of this rule is demonstrated by history, practice and experience. Therefore, while I do not under the law abdicate any authority vested in me by the charter, I nevertheless abstained from taking part in the deliberations of your Honorable Body, for the reason that no executive officer can bring his mind to review actions without prejudice if he participates in the work and assists in forming the legislation which he subsequently reviews.

In conclusion let me say that to the chiefs of every department I owe whatever good work has been accomplished during the past year. I cannot find words sufficiently strong to emphasize the deep obligation I owe them for their loyalty, capability and unselfish labors, the fruits of which will be better seen and appreciated during this the second year of this administration.

HEMPSTEAD WASHBURNE,

Mayor.

SIXTEENTH ANNUAL REPORT

OF THE

Department of Public Works

CITY OF CHICAGO

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Department of Public Works

CITY OF CHICAGO.

COMMISSIONER.

J. FRANK ALDRICH.

SECRETARY.

D. S. MEAD.

Heads of Bureaus.

ENGINEERING.	
CITY ENGINEER,	L. H. CLARKE
FIRST ASSISTANT CITY ENGINEER,	BERNHARD FEIND
SEWERS.	
SUPERINTENDENT,	O. H. CHENEY
STREETS.	
SUPERINTENDENT,	JAMES H. BURKE
ASSISTANT SUPERINTENDENT,	M. H. GIBSON
SPECIAL ASSESSMENTS.	
SUPERINTENDENT,	J. S. SHEAHAN
WATER RATE COLLECTIONS.	
SUPERINTENDENT,	WILLIAM LORIMER
ASSISTANT SUPERINTENDENT,	EDWARD J. DWYER
MAPS.	
SUPERINTENDENT,	R. A. MANSTEIN
<hr/>	
DEPARTMENT BOOK-KEEPER,	E. F. HAMILTON
<hr/>	
PRIVATE SECRETARY TO COMMISSIONER,	E. LOUIS KUHN
ACCOUNTANT,	JOHN FREEMAN
PURCHASING AGENT,	W. G. HALKETT
CASHIER,	ROBERT A. SMITH
PAYMASTER,	JOHN A. MCINTOSH
CHIEF CLERK ENGINEERING BUREAU,	JOHN W. COGHLAN
SUPERINTENDENT WATER PIPE EXTENSION,	JOHN A. MOODY
BRIDGE ENGINEER,	W. M. HUGHES
CHIEF ENGINEER BUREAU OF STREETS,	GEORGE L. PURINTON
SUPERINTENDENT OF SIDEWALKS AND STREET OBSTRUCTIONS,	WILLIAM H. DURANT
CHIEF CLERK BUREAU OF STREETS,	ERAST J. BURKERT
CHIEF CLERK WATER RATES,	H. T. CARR
WATER RATE ASSESSOR,	THOMAS PATTISON
WATER PERMIT CLERK,	H. G. NAPER
SUPERINTENDENT WATER METERS,	P. S. STORM
CASHIER,	JOHN W. LYONS
REGISTRAR WATER RATES,	JOHN M. HUBBARD, JR.
ENGINEER IN CHARGE NORTH PUMPING WORKS,	D. H. WELCH
ENGINEER IN CHARGE WEST PUMPING WORKS,	JAMES STEWART
ENGINEER IN CHARGE SIXTY-EIGHTH STREET PUMPING WORKS,	A. O. PARKER
ENGINEER IN CHARGE CENTRAL PUMPING WORKS,	CHARLES McDONALD
ENGINEER IN CHARGE LAKE VIEW PUMPING WORKS,	F. D. PARKER
ENGINEER IN CHARGE WASHINGTON HEIGHTS PUMPING WORKS,	GEORGE INMAN
ENGINEER IN CHARGE CANAL PUMPING WORKS,	W. J. CULLITON
ENGINEER IN CHARGE FULLERTON AVENUE PUMPING WORKS,	A. D. HOWELL
ENGINEER IN CHARGE WOODLAWN PUMPING WORKS,	J. Q. ANNABLE

REPORT

OF THE

Commissioner of Public Works

CITY OF CHICAGO

COMMISSIONER'S REPORT.

OFFICE OF THE COMMISSIONER OF PUBLIC WORKS, }
CITY HALL. }

*To the Honorable the Mayor and City Council
of the City of Chicago:*

GENTLEMEN :—In pursuance of my official duty I herewith respectfully present this, the sixteenth annual report of this Department, representing in detail the public improvements accomplished for and during the year ending December 31st, 1891.

The year which this report covers commenced with the Hon. William H. Purdy occupying the position of Commissioner of Public Works, his term of office expiring April 28th last, at which date the present incumbent, through the courtesy of His Honor the Mayor and the Honorable City Council, was placed in the position thus vacated and immediately entered upon the duties of such office.

The year has been marked by increasing demands upon the Department for extending, maintaining and operating all classes of public improvements made essential by the unprecedented yearly increase of population, the establishment of manufacturing interests in the outlying districts of the city, forming new settlements, opening up new streets requiring all the improvements, including the extension of sewer and water mains and street lighting, and by the still greater requirements for the extension of all classes of street improvements in the older business and residence portion of the city; the whole reaching a magnitude unequaled in former years in consequence not only of the natural growth and development of the city, but the unusual activity of all classes of public and private institutions in preparation for the great event in 1893.

The present city limits encloses an area of 181.75 square miles, representing 116,320 acres, with a possible extension of roadway reaching 4,382 miles. Of this extensive stretch of territory about 2,335 miles of streets have been opened for public use, 775 miles of which have been improved

with various classes of street paving, leaving 1,559 miles of streets unimproved. With this information some estimate can be formed of the expense for labor and material necessary to keep such roadways in condition for public travel.

With the estimated growth of 100,000 souls annually and the constant extension of street car and other transportation facilities through the recently annexed portions of the city these present unimproved districts will not long remain unoccupied and public improvements must follow and keep pace with this rapidly spreading population, involving a proportionate yearly increased expenditure of money adequate for such purpose.

Notwithstanding the excessive demands thus forced upon this Department the best energy and skill of the various heads of bureaus have been directed to the accomplishment of all public work entrusted to them to the extent that a limited appropriation of funds would admit.

The following is a condensed review of the work undertaken by the Department during the past year :

EXTENSION OF WATER SYSTEM.

130.97 miles of water pipe, from four to forty-eight inches in diameter, were laid during the year, making a total of 1,346.75 miles now laid in the city.	
1,110 new water valves were added ; total in place	9,739
1,483 new fire hydrants were added ; total in place.....	13,411
Total number of fire cisterns.....	54
*22,397 new house service taps were added, making a total of....	181,398
*22,397 new house service pipes were added, making a total of....	181,398
The number of service taps inserted in water mains, including re-taps and taps inserted for enlarged service pipes to buildings previously supplied, is.....	23,381

EXTENSION OF SEWERAGE SYSTEM.

There were constructed during the year 103.583 miles of brick and pipe sewers, from nine inches to seven and one-half feet in diameter, making a total of.....	888.320
3,979 new catch-basins were added, making a total of.....	30,468
3,736 man-hole chambers were added, making a total of.....	33,726
Old catch-basins were raised to grade, numbering.....	3,630
Old man-hole covers raised to grade, numbering.....	3,872
Old catch-basins and man-holes repaired, numbering.....	110
Number of catch-basins cleaned.....	13,368
Sewers cleaned to extent of	297 miles.
House drains laid, amounting to.....	6,233 miles.

* These amounts do not include the water service pipes and taps inserted in the annexed districts previous to annexation, no record having been kept for that purpose.

STREET IMPROVEMENTS.

There were 116.35 miles of streets improved during the past year.

There were 152,621 square yards of street pavement repaired.

There were 168,882 square yards of pavement laid by the various street railway companies in streets occupied by their tracks.

Total streets in the city.....	2,334.40 miles
Total streets paved in the city.....	774.78 miles
New sidewalks constructed.....	603.97 miles
Sidewalks repaired.....	245.42 miles
Total sidewalks in city	3,140.97 miles
Streets cleaned.....	7,160.50 miles
Number of aprons, culverts, crossings, etc., built.....	9,722
Sidewalk intersections constructed.....	2,319
Number of street lamps (gas).....	27,049
Number of street lamps (oil and gasoline).....	11,355
Number of street lamps (electric).....	1,181
Total number of street lamps in the city.....	38,784
Street lamps repaired	5,758
Number of buildings removed.....	1,525

MAPS AND PLATS MADE.

For street improvement assessments.....	645
For opening, widening and vacating streets and alleys.....	694
For sidewalks	1,037
For Street Engineer's estimates.....	872
For lamp posts.....	2,004
For law department.....	639
For survey maps.....	236
For miscellaneous purposes.....	186

Total.....	6,313
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TOTAL ASSESSMENTS PREPARED.

For improvement of streets and alleys.....	449
For private drains.....	242
For water service pipes.....	235
For street and alley openings.....	50
For new sidewalks.....	563
For gas lamps.....	147

For Dyott champion lamps	3
For gasoline lamps	46
For sewers	322
Boulevard lamps	27
Total	2,084

MISCELLANEOUS.

SPECIAL IMPROVEMENTS.

- Constructing sub-structure Thirty-fifth street bridge.
- Erecting fire engine house corner of Michigan avenue and One Hundred and Fifteenth street.
- Constructing sub-structure West Taylor street viaduct.
- Constructing North Shore tunnel.
- Constructing super-structure West Taylor street viaduct.
- Constructing sub-structure Ogden avenue viaduct.
- For furnishing electric plant for Rush street bridge.
- For sweeping and cleaning improved streets.
- Erecting two engines at Sixty-eighth street pumping works.
- Erecting fire engine house on Ewing avenue, between One Hundred and Sixth and One Hundred and Seventh streets.
- For constructing viaduct over railroad at West Madison street.
- For special castings for Fourteenth street pumping station.
- For dredging the Chicago river and its branches.
- Constructing water tunnel at Sixty-eighth street pumping works.
- For constructing sewer for Sixty-eighth street pumping station.
- For cast-iron water pipe, 36 inches in diameter.
- For constructing Thirty-fifth street tunnel.
- For erecting engine house at 6244 Laflin street.
- For constructing water tunnel at Jefferson street.
- For erecting fire engine house at corner of Fillmore and Francisco streets.
- For erecting fire engine house on Thirty-ninth street, between Blanchard street and Washington avenue.
- For erecting fire engine house corner of Fulton street and Forty-seventh street.
- For erecting fire engine house corner of Grove street and Vincennes avenue.
- For air compressors for Sixty-eighth street pumping station.
- For hydrant and stop-valve castings.
- For sub-structure for a bridge over the river at California avenue.
- For constructing engine foundations at Sixty-eighth street pumping station.

For constructing super-structure of a bridge over the river at California avenue.

For constructing super-structure of viaduct over Ogden avenue.

For five tubular boilers for Canal pumping works.

For erecting fire engine house on Columbia avenue, near North avenue.

For erecting barn for Police Department at Nos. 76 to 80 Campbell avenue.

For lowering Ninety-second street bridge.

For constructing water tunnel at Ashland avenue.

For inlet pipe for Lake View water works.

For erecting addition to Sixty-eighth street pumping station.

For erecting fire-boat house at Ninety-fifth street bridge.

For brass castings.

For furnishing tug boat for winter service.

CONTRACTS.

Contracts were entered into by the city for public improvements and various classes of material under the immediate supervision of this Department, incurring an expenditure of \$5,565,879.64, as follows:

341	Contracts for street and alley improvement at a cost of...	\$2,113,537	03
184	Contracts for water service pipes, costing.....	191,596	02
152	Contracts for private drains, aggregating.....	110,840	12
2	Contracts for constructing plank sidewalks, aggregating..	90,838	92
1	Contract for repairing and repaving street openings.....	15,075	66
20	Contracts for coal for electric light plant, pumping stations, City Hall building, Fire Department, bridge, etc., aggregating.....	272,653	12
4	Contracts for constructing and lowering bridges, aggregating.....	31,528	50
5	Contracts for constructing viaducts, aggregating.....	289,498	10
6	Contracts for copper and galvanized iron work, two pumping engine foundations, two pumping engines, cut stone, iron roof and steel floor and addition to Sixty-eighth street pumping station	146,048	07
3	Contracts for dredging Chicago river, aggregating.....	46,756	58
5	Contracts for water tunnels, aggregating.....	166,375	88
1	Contract for electric machinery for Rush street bridge...	2,500	00
2	Contracts for special castings for Fourteenth street pumping station.....	9,419	08
1	Contract for inlet pipe at Lake View works.....	2,009	96
1	Contract for laying inlet pipe at Lake View works.....	4,033	75

DEPARTMENT OF PUBLIC WORKS.

1 Contract for special castings for tunnel at Ashland avenue and Thirty-fifth street.....	\$ 4,492 10
1 Contract for steam heating Fourteenth street pumping station	2,190 00
1 Contract for five tubular boilers for Canal pumping works.	5,000 00
1 Contract for sewer at Sixty-eighth street pumping works..	2,600 79
1 Contract for glazing at Fourteenth street pumping station.	592 50
3 Contracts for teaming for water and sewer departments, aggregating.....	98,411 71
1 Contract for cast-iron water pipe.....	28,927 71
1 Contract for brass castings.....	26,514 40
1 Contract for tug service.....	426 67
1 Contract for air compressors at Sixty-ninth street and Peoria street.....	3,986 85
1 Contract for hydrant and stop-valve castings.....	24,209 60
5 Contracts for pig lead, aggregating.....	41,845 00
1 Contract for corporation ferrules.....	8,410 87
3 Contracts for cast-iron manholes and catch-basin covers, rings, stop-cocks and hydrant chambers, aggregating.....	29,722 05
1 Contract for sweeping and cleaning streets.....	147,593 05
1 Contract for constructing fire-boat house at Ninety-fifth street bridge.....	2,073 00
8 Contracts for constructing fire engine houses, aggregating.	29,058 00
2 Contracts for constructing barns for Police Department..	5,539 00
1 Contract for lamp posts.....	13,419 00
1 Contract for boulevard lamps and globes.....	3,521 50
1 Contract for glass for street lamps	4,500 00
1 Contract for gasoline.....	19,150 00
5 Contracts for oak and pine lumber for sewer department, bridges, viaducts and pipe yard.....	37,994 61
543 Contracts for building sewers, catch-basins, etc., aggregating.....	1,532,990 44
Total.....	<u>\$5,565,879 64</u>

FINANCIAL.

Statement of the sum appropriated by the City Council, together with various amounts from other sources, to be expended in public improvements under the supervision of the Department, during the year 1891:

Balance January, 1, 1891, to credit of water, sewerage, general improvement, and City Hall funds.....	\$ 386,912 53
From appropriation for 1891.....	2,094,644 05

For rent of Rookery lot.....	\$ 35,000 04
For interest on water fund investment.....	100 00
From water revenue, including tapping permits and delinquents	2,364,463 09
From bonds sold.....	1,000,000 00
From advances to lay water mains.....	182,263 80
From advances to construct sewers.....	16,195 27
From drain permits and drain layers' licenses.....	96,109 10
From deposits on sundry improvements.....	261,384 17
From special assessment and other funds.....	413,570 83
From house-moving permits.....	4,331 00
From deposits for street permits.....	57,207 00
For labor and material.....	69,077 98
From special assessments.....	8,790,443 29
Total.....	<u>\$15,771,702 15</u>

Of this amount expenditures have been made from the sewerage and general appropriations and from funds of annexed territory, as follows:

For bridges and viaducts, dredging river, street cleaning and repairing, public buildings and parks, Fullerton avenue and Canal pumping works, improving street intersections, sewers, catch-basins, salaries, labor and material..	\$ 3,321,982 83
For South Side pumping works on account of construction.	187,127 01
For Central pumping works.....	36,753 50
For extension of water pipe system.....	1,287,978 28
For meter and private work by water department.....	77,768 08
For new lake tunnel.....	311,770 78
For new lake tunnel crib.....	36,736 74
For new land tunnel.....	500 00
For Lake View water tunnel.....	152,575 43
For water loan interest.....	326,297 05
For new shore inlet extension.....	96,986 02
For new Ashland avenue tunnel.....	15,733 70
For new Jefferson street tunnel.....	15,968 17
For advances refunded.....	59,646 56
For maintenance of water system, operating pumping works, cost of assessing and collecting water taxes, material on hand, etc.....	984,254 21
For street improvements, street openings, sidewalks, private drains, water service pipes and lamp posts.....	4,056,743 03

For rebate (excess of assessment over cost of improvements), abatement to property owners doing their own work, land damages and assessments held over and annulled by City Council	\$ 4,733,700 26
Balance December 31, 1891, to the credit of water, sewerage, City Hall and general appropriation funds.....	69,180 50
Total	<u>\$15,771,702 15</u>

WATER WORKS.

The report of the City Engineer furnishes interesting information concerning the condition and present capacity of the pumping machinery for delivering to the citizens the quantity of water required daily for domestic and other uses.

The city, at present, is supplied with 22 pumping engines of various types and power, representing a total engine capacity for delivering daily 260,000,000 gallons of water. From measurements obtained, there was pumped during the year a daily average of over 174,000,000 gallons of water. The rate of pumpage at certain times during the year reaches very closely to the total capacity.

WATER TUNNELS.

FOUR-MILE TUNNEL.

Good progress has been made on the four-mile tunnel during the year. The distance between the lake and shore headings has been diminished by 8,125 lineal feet. On the first day of January, 1892, 4,339 lineal feet remained to be constructed.

LAKE VIEW TUNNEL.

On the first day of January, 1892, 5,313 lineal feet of tunnel had been completed, 1,584 lineal feet of which was constructed during the year, leaving 4,737 feet to complete.

The crib for this tunnel has been set in place at a distance of 10,000 feet from shore.

JEFFERSON STREET TUNNEL.

Jefferson street tunnel was constructed, connecting the old and new tunnels of the two mile and the four-mile crib. It is a seven-foot tunnel and extends from Van Buren street to Harrison street, on Jefferson street, a distance of 625 feet.

THIRTY-FIFTH STREET AND ASHLAND AVENUE TUNNELS.

The Thirty-fifth street tunnel has been constructed under the South fork of the Chicago river at Thirty-fifth street. The Ashland avenue tunnel under the west arm of the South fork and Ashland avenue has also been constructed. Both of these tunnels were built to accommodate water pipe to supply the Stock Yards.

FOURTEENTH STREET PUMPING WORKS.

The Fourteenth street pumping works has been put in condition for work. The plant is completed and the building is practically finished inside and outside.

SIXTY-EIGHTH STREET PUMPING WORKS.

The Sixty-eighth street pumping works are being improved and an addition to the works is in course of erection to accommodate two Holly engines to supply the World's Fair with water. A new five-foot land tunnel about 1,100 feet long has been constructed so that a sufficient supply of water can be obtained.

LAKE VIEW PUMPING WORKS.

The Lake View pumping works has been improved by placing a thirty-inch steel inlet pipe to replace the old wooden box thirty inches square, and in consequence a good supply of water is now being obtained.

PIPE SYSTEM.

Water pipes were laid during the year, as follows :

Four (4) inch.....	7,940 feet.
Six (6) inch	485,411 feet.
Eight (8) inch	137,301 feet.
Twelve (12) inch.....	23,988 feet.
Fourteen (14) inch.....	5,268 feet.
Sixteen (16) inch.....	10,379 feet.
Twenty-four (24) inch.....	5,154 feet.
Thirty-six (36) inch	16,069 feet.
Forty-eight (48) inch.....	30 feet.
Total.....	691,540 feet.

The whole being equal to 130.97 miles. Small pipe taken up and abandoned $\frac{920}{2250}$ miles; net pipe added to the system during the year, 130.8 miles; making a total of 1,346.75 miles of water mains laid within the city limits.

Fire hydrants placed in position during the year.....	1,575
Net number of hydrants added to the system.....	1,483

Total number of fire hydrants now in use.....	13,411
Stop valves put in place during the year.....	1,110
Total number now in use.....	9,739

WATER METERS AND HYDRAULIC ELEVATORS.

Number of new meters put in during the year.....	341
Number of old meters removed.....	116
Net increase.....	225
Total number of meters now in use.....	4,131
Number of city meters removed and replaced by new ones.....	63
Total number of meters repaired and charged for.....	812
Total number of meters repaired and not charged for.....	766

The revenue derived from water measured by these meters and hydraulic elevators for the past year amounts to \$717,068.05, an increase of \$48,907.95 over the amount collected from the same source last year.

WATER WORKS RECEIPTS AND EXPENDITURES FOR 1891.

RECEIPTS.

Water rates collected (including delinquents).....	\$2,271,729 29
Water service cocks (permits and plumbers' licenses).....	92,733 80
Water meters, labor, etc., for private parties.....	60,099 99
Rent of Rookery lot.....	35,000 04
Advances to lay water pipes.....	182,263 80
Bonds sold.....	1,435,500 00
Interest from investment.....	100 00
Old material sold.....	5,666 48
Miscellaneous.....	756 82
Total.....	\$4,083,850 22

EXPENDITURES.

For extension of water pipe system.....	\$1,287,978 28
For water works repairs.....	203,960 75
For water service pipe and tapping department.....	64,846 33
For meter and private work.....	77,768 08
For North pumping works.....	134,865 60
For West pumping works.....	112,651 26
For South Side pumping works.....	187,127 01
For Central pumping works.....	81,976 24
For Sixty-eighth street pumping works.....	97,993 43
For Lake View pumping works.....	33,755 89

For Washington Heights pumping works.....	\$ 2,703 94
For Lake View water tunnel.....	152,575 43
For Michigan avenue property.....	254 65
For new water tunnel.....	311,770 78
For new lake tunnel crib.....	36,736 74
For new shore inlet extension.....	96,986 02
For lake tunnel-crib.....	8,120 46
For interest on water loan.....	326,297 05
For advances for laying water mains refunded.....	35,208 19
For salaries and office expenses.....	239,011 07
For other salaries and office expenses.....	11,759 97
For miscellaneous.....	5,654 34
For Ashland avenue tunnel.....	15,733 70
For Jefferson street tunnel.....	15,968 17
For Sixty-eighth street pumping works extension.....	169 39
For hydrant wrenches refunded.....	350 00
For new land tunnel.....	500 00
Total.....	<u>\$3,542,722 82</u>

Total cost of water works of the city to Dec. 31, 1891, is as follows:

Cost up to May 6, 1861, when the works were transferred from
the Board of Commissioners to the Board of Public Works, \$1,020,160 21

EXPENDITURES SINCE 1861.

Cost of water pipe (including labor).....	\$10,402,847 35
Cost of North pumping works.....	918,573 14
Cost of West pumping works.....	896,849 37
Cost of first lake tunnel.....	464,866 05
Cost of second lake tunnel.....	415,709 36
Cost of lake crib protection.....	149,431 63
Cost of new lake tunnel.....	760,880 57
Cost of land tunnel to West pumping works.....	542,912 63
Cost of new land tunnel.....	284,380 04
Cost of lake tunnel crib.....	70,319 10
Cost of lake shore inlet.....	42,871 17
Cost of new lake shore inlet extension.....	97,702 12
Cost of new lake shore inlet.....	89,474 17
Cost of water works shop.....	25,551 73
Cost of water works stock.....	29,318 00
Cost of water reservoir fence.....	1,702 87
Cost of addition to stable.....	1,019 48
Cost of real estate for sites of new pumping works.....	206,972 35
Cost of works annexed territory.....	1,160,164 24

Cost of Central pumping works (account).....	\$ 365,078 07
Cost of Lake View water tunnel (account).....	227,320 54
Cost of South side pumping works (account).....	441,653 34
Cost of new lake crib (account).....	365,860 12
Cost of breakwater.....	28,181 93
Cost of Ashland avenue tunnel.....	15,733 70
Cost of Jefferson street tunnel.....	15,968 17
Cost of Sixty-eighth street pumping works (account).....	19,766 67
Total cost of entire water works to December 31st, 1891..	<u>\$19,061,268 12</u>

Paid for as follows :

From general taxes.....	\$ 2,713,878 53
From City of Chicago water loan bonds, 6 per cent.....	132,000 00
From City of Chicago water loan bonds, 7 per cent.....	2,847,000 00
From City of Chicago water loan bonds, $3\frac{45}{100}$ per cent.....	333,000 00
From City of Chicago water loan bonds, 4 per cent.....	150,000 00
From City of Chicago water loan bonds, $3\frac{1}{2}$ per cent.....	493,000 00
From City of Chicago water loan bonds, canceled.....	859,000 00
From Hyde Park water loan bonds, 5 per cent.....	50,000 00
From Hyde Park water loan bonds, 7 per cent.....	384,000 00
From Town of Lake water loan bonds, 5 per cent.....	179,900 00
From Town of Lake water loan bonds, 7 per cent.....	222,000 00
From Lake View water bonds, 4 per cent.....	50,000 00
From Lake View water bonds, 5 per cent.....	23,000 00
From Lake View water bonds, 7 per cent.....	75,000 00
From water fund investment.....	1,435,500 00
From water fund revenues.....	9,113,989 59
	<u>\$19,061,268 12</u>

Total water works income to December 31st, 1891..... 27,500,511 37

Total operating expenses and maintenance to December 31st,
1891 (including interest \$7,339,056 39 on bonded debt
and bonds canceled)..... 18,084,189 55

Difference between income and expenses.....\$ 9,416,321 82

Accounted for as follows :

Paid towards water works construction.....	\$9,113,989 59
American Exchange National bank.....	116,420 27
J. W. Lyons, cashier.....	1,691 88
J. Hardacre.....	100 00

Meter department, stock on hand.....	\$ 7,699 02	
Shop and stable, stock on hand.....	6,369 33	
Tapping department, stock on hand.....	4,865 99	
City Treasurer.....	225,548 58	
Water pipe, etc., on hand.....	238,954 55	
	<hr/>	\$ 9,715,639 21

Less amount due depositors for hydrant wrenches.....	\$ 1,796 82	
Less amount advanced to private parties to pay water pipe in non-paying districts.....	297,520 57	
	<hr/>	299,317 39
		<hr/>
		\$9,416,321 82
		<hr/>

BONDED DEBT OF WATER WORKS.

City of Chicago water loan bonds outstanding December 31, 1891,
bearing 7 per cent. interest, and maturing as follows:

July 1, 1892.....	\$ 821,000 00	
July 1, 1894.....	541,000 00	
July 1, 1895.....	1,485,000 00	
	<hr/>	\$2,847,000 00

Bearing 6 per cent. interest, maturing as follows:

July 1, 1897.....	\$ 50,000 00	
July 1, 1898.....	82,000 00	
	<hr/>	132,000 00

Bearing $3\frac{1}{10}\%$ per cent. interest, maturing—

July 1, 1902.....		333,000 00
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Bearing 4 per cent. interest, maturing—

July 1, 1908.....		150,000 00
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Bearing $3\frac{1}{2}\%$ per cent. interest, maturing—

July 1, 1909.....	\$ 159,500 00	
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Bearing 4 per cent. interest, maturing—

July 1, 1910.....	333,500 00	
	<hr/>	493,000 00

Total.....		<hr/>
		\$3,955,000 00

DEPARTMENT OF PUBLIC WORKS.

ANNEXED DISTRICTS.

Town of Lake water bonds:

5 per cent. bonds, due April 1, 1892.....	\$ 14,900 00	
5 per cent. bonds, due April 1, 1893.....	15,000 00	
5 per cent. bonds, due April 1, 1894.....	15,000 00	
5 per cent. bonds, due April 1, 1895.....	15,000 00	
5 per cent. bonds, due April 1, 1896.....	15,000 00	
5 per cent. bonds, due April 1, 1897.....	15,000 00	
5 per cent. bonds, due April 1, 1898.....	15,000 00	
5 per cent. bonds, due April 1, 1899.....	15,000 00	
5 per cent. bonds, due April 1, 1900.....	15,000 00	
5 per cent. bonds, due April 1, 1901.....	15,000 00	
5 per cent. bonds, due April 1, 1902.....	15,000 00	
7 per cent. bonds, due January 1, 1894.....	107,000 00	
7 per cent. bonds, due July 1, 1894.....	115,000 00	
		<hr/>
		\$ 386,900 00

Hyde Park water bonds:

5 per cent. bonds, due January 1, 1904.....	\$ 50,000 00	
7 per cent. bonds, due July 1, 1893.....	30,000 00	
7 per cent. bonds, due January 1, 1894.....	23,000 00	
7 per cent. bonds, due January 1, 1895.....	322,000 00	
7 per cent. bonds, due January 1, 1896.....	9,000 00	
		<hr/>
		434,000 00

Lake View water bonds:

5 per cent. bonds, due July 1, 1904.....	\$ 23,000 00	
4 per cent. bonds, due July 1, 1907.....	50,000 00	
7 per cent. bonds, due July 1, 1895.....	75,000 00	
		<hr/>
		148,000 00

Total bonded debt of water works.	\$4,923,900 00
Total interest paid on water loan, to January 1, 1892.....	\$7,339,056 39

The following table indicates the quantity of water furnished, the total revenue received, and the average amount per million gallons annually, from 1858 to 1891, both years inclusive:

YEAR.	MILLION GALLONS FURNISHED.	REVENUE.	REVENUE PER MILLION GALLONS.
1858.....	1,092	\$102,178 85	\$93 57
1859.....	1,415	122,753 50	86 70
1860.....	1,717	131,162 73	76 39
1861.....	1,766	131,035 10	74 15
1862..... (15 months).....	2,705	188,448 25	85 00
1863.. .. (9 months).....	2,336	192,246 39	82 29
1864.....	2,523	224,902 57	89 14
1865.....	2,778	253,114 49	91 11
1866.....	3,169	302,017 59	95 30
1867.....	4,232	338,929 28	80 08
1868.....	5,375	420,686 94	78 26
1869.....	6,801	476,968 24	70 13
1870.....	7,945	539,180 19	67 86
1871.....	8,423	445,834 64	52 93
1872.....	10,051	544,465 90	54 17
1873.....	11,723	708,804 32	60 46
1874.....	13,903	705,926 64	50 77
1875..... (9 months).....	10,957	635,996 54	58 04
1876.....	15,346	771,940 38	50 30
1877.....	19,047	908,509 64	47 70
1878.....	19,564	944,190 97	48 31
1879.....	20,557	922,001 26	44 85
1880.....	21,002	865,618 35	41 21
1881.....	23,331	936,922 07	40 16
1882.....	24,150	1,049,576 90	43 46
1883.. ..	26,742	1,142,868 54	42 73
1884.....	29,286	1,204,338 74	41 12
1885.....	33,451	1,339,038 00	40 03
1886.....	35,693	1,374,837 32	38 52
1887.....	37,199	1,490,023 68	40 05
1888.....	38,122	1,557,116 78	40 84
1889.....	40,504	1,621,786 34	40 04
1890.....	56,338	2,202,724 58	39 07
1891.....	63,552	2,364,463 09	37 21

SEWERAGE.

The sewerage system has been extended in the various divisions of the city during the year as follows :

Constructed in the West Division.....	54.690 miles.
Constructed in the South Division.....	34.219 miles.
Constructed in the North Division.....	14.674 miles.
Total.....	103.583 miles.
Number of catch-basins built.....	3,979
Number of man-hole chambers built.....	3,736

The cost of constructing sewers and catch-basins during the year was as follows :

West Division.....	\$ 1,014,346 17
South Division.....	358,942 99
North Division.....	159,701 28
Total.....	\$ 1,532,990 44

Total number of catch-basins.....	30,468
Total number of man-hole chambers.....	33,726
Total number of miles of sewer in the city.....	888.320

MAINTENANCE OF SEWERAGE.

The cost of cleaning and repairing sewers, the cost per mile, and number of miles, also the number of catch-basins and man-hole chambers distributed in the three divisions of the city, is as follows :

DIVISIONS.	MILES OF SEWERS.	NUMBER OF CATCH-BASINS.	NUMBER OF MAN-HOLE CHAMBERS.
West.....	373.764	13,321	13,246
South.....	346.465	11,245	13,525
North.....	168.091	5,902	6,955
TOTALS.....	888.320	30,468	33,726

The cost of repairing sewers during the year was \$29,753.04, being an average cost of \$33.49 per mile.

The cost of cleaning was \$123,620.44, making the average cost \$139.16 per mile.

The total cost of both repairs and cleaning was \$153,373.48, an average cost of \$172.65 per mile.

Of the 888.320 miles of sewers constructed, 393.758 miles are of brick, and 494.562 miles of vitrified pipe.

TOTAL COST OF SEWERS, ETC.

DIVISIONS.	MILES.	COST.	AVERAGE COST PER MILE.
West.....	373.764	\$5,570,257 50	\$14,903 14
South.....	346.465	4,607,186 58	13,297 72
North.....	168.091	2,321,050 31	13,808 29
TOTALS.....	888.320	\$12,498,494 39	\$14,069 81

BONDED SEWER DEBT.

Sewer bonds outstanding December 31, 1891, bearing 7 per cent. interest and maturing as follows :

July 1, 1892.....	\$ 490,000 00
July 1, 1894.....	785,000 00
July 1, 1895.....	13,000 00
July 1, 1900, bearing 4½ per cent. interest.....	489,500 00
July 1, 1904, bearing 4 per cent. interest.....	458,000 00
July 1, 1908, bearing 4 per cent. interest.....	387,000 00
Total sewerage debt	\$2,622,500 00

RIVER IMPROVEMENT BONDS.

Bonds outstanding December 31, 1891, bearing 7 per cent. interest and maturing as follows:

July 1, 1892.....	\$ 249,000 00
July 1, 1893.....	500,000 00
July 1, 1894.....	346,000 00
July 1, 1895.....	1,263,000 00
July 1, 1910, 4 per cent. bonds.....	250,000 00
Total River Improvement debt.....	\$ 2,608,000 00
Grand total outstanding.....	\$ 5,230,500 00
Total interest paid on Sewerage bonds to January 1, 1892..	\$ 5,169,223 50
Total interest paid on River Improvement bonds to January 1, 1892.....	4,297,985 00
Total interest paid on Water Loan bonds to January 1, 1892.	7,339,056 39
Grand total of interest paid to January 1, 1892.	\$16,806,264 89

RIVER AND HARBOR.

From the record of observations presented in the report of the City Engineer, the water in Lake Michigan and Chicago river has been during the year 1891 lower than at any time since 1854, or probably than at any time in the history of the city. Mean water in Lake Michigan during the year was five hundredths of a foot above datum, while the lowest stage recorded was two and thirty-nine hundredths (2.39) feet below the low water of 1847, which is the plane of city datum.

Investigations in the Engineering Bureau regarding the stage of water in Lake Michigan, from data covering the catchment area or basin of the upper lakes, explain most conclusively the cause of this most remarkable low stage of water. It appears there has been a steady decrease in precipitation with an increase of mean temperature over the basin of the upper lakes since 1884; the slight improvement shown in 1888 and 1890 was not sufficient to stay the downward tendency of mean water in the lake. The decrease in precipitation for 1891 from 1890 is four and eighty-one hundredths (4.81) inches, while the mean temperature increased six-tenths of a degree, and, in consequence, we cannot hope for even as good a condition of water in Lake Michigan in 1892 as that we suffered under during 1891. Unless we have some heavy rains before the frost leaves the ground the navigable condition of the harbor will be much worse this year, for the increase in precipitation in any one year is not felt in the lake condition until the year following, provided the temperature remains the same.

During the year the city expended \$47,445.04 for dredging, removing 260,435 cubic yards of material from the Chicago river. As compared with the cost of dredging for 1890, this shows a saving of 81 per cent., or \$38,700.69 on the cost of the work done in the past year.

Notwithstanding the extremely low condition of water in the lake and river, the commerce of the city has increased 746,847 tons, while the number of vessels decreased 452. The commerce of the city is as follows:

Year 1891.....Arrivals,	9,803 vessels.....	5,439,714 tons.
Year 1891.....Clearances,	9,878 vessels.....	5,423,184 tons.
Totals for year.....	19,681 vessels.	10,862,898 tons.

BRIDGES AND VIADUCTS.

The cost for maintaining these structures for the year was as follows:

For general repairs of bridges and viaducts.....	\$123,109 18
Of this amount there was received for labor and material and from vessels for damages to bridges.....	1,422 13
Net cost to city for repairs of bridges and viaducts.....	\$124,531 31

CANAL PUMPING WORKS.

The Canal pumping works have pumped from the South branch of the Chicago river into the Illinois and Michigan canal an average of 37,771 cubic feet of water per minute for the year. Five boilers have been contracted for at a cost of \$7,400.00, two of which have been in use since December 1, 1891.

Engine No. 4 was thoroughly overhauled at a cost of \$1,500. The cost of operating and maintaining these works during the year was \$72,802.42.

THE OGDEN DAM.

The Ogden dam has undergone extensive repairs and been made serviceable and secure against floods at a cost of \$3,424.10.

STREETS.

During the year streets were improved as follows:

Paved with cedar blocks.....	75.07 miles
Paved with macadam.....	37.21 miles
Paved with granite blocks.....	0.36 miles
Paved with asphalt.....	4.43 miles
Paved with brick.....	0.29 miles
Paved with burnt clay.....	0.23 miles
Total number of miles paved.....	117.59 miles

DISTRIBUTION OF KINDS OF PAVEMENT.

The following shows the kind of pavement in use in each division of the city on December 31, 1891:

DIVISIONS.	Wood Block.	Macadam.	Stone.	Asphalt Block.	Sheet Asphalt.	Brick.	Burned Clay.	Grand Total.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
North.....	110.59	43.18	.58	.....	3.11	.....	.....	157.41
South.....	116.49	190.80	21.84	3.59	1.72	.67	.....	334.84
West.....	252.16	22.33	1.47	.....	4.18	.....	.23	280.14
Viaduct Approaches	2.39	.....	.....	.....	.....	.....	.....	2.39
Total Miles.....	481.63	256.31	23.84	3.59	9.01	.67	.23	774.78

Repaving and repairs have been made on improved streets in each division of the city as follows:

South Division	35,687 square yards
West Division	43,625 square yards
North Division	77,309 square yards
Total	<u>156,621 square yards</u>

This does not include repaving done by private corporations.

STREET CLEANING.

The past year 5,367.02 miles of streets were cleaned under a contract between the city and J. F. Walsh, for the sum of \$27.50 per mile, at a cost of \$147,593.07. The work was commenced on April 10th and discontinued on November 16th. Before and after the above dates, in addition to removing snow and cleaning intersections, the Department cleaned 1,792.98 miles at a cost of \$70,454.08, making a total of 7,160.50 miles at a cost of \$218,047.15.

STREET RAILWAYS.

During the year the street railway companies paved the portion of the various streets occupied by their tracks, as shown in the following table :

CORPORATIONS.	Granite Blocks, Square Yards.	Cedar Blocks, Square Yards.	Cobble- stone, Square Yards.	Total Square Yards.
Chicago City Railway Co.....	50,727	24,417	.....	77,544
North Chicago St. R. R. Co.....	553	13,366	2,519	16,438
West Chicago St. R. R. Co.	54,666	11,911	8,323	74,900
TOTALS	105,946	49,694	10,842	168,882

The total mileage of tracks in use by the several street railroad companies is :

North Chicago Street Railroad Company.....	81.60 miles
Chicago City Railway Company.....	148.12 miles
West Chicago Street Railroad Company.....	142.89 miles
Calumet Electric Street Railway Company.....	4.05 miles

Cicero and Proviso Electric Railway Company.....	4.80 miles
Chicago & South Side Rapid Transit Company.....	3.30 miles
West Lake Street Elevated Railroad Company.....	1.05 miles
South Chicago City Railway Company.....	5.66 miles
Total.....	391.47 miles

SIDEWALKS.

The following table shows the various kinds of material used in the construction and repair of sidewalks during the year :

DIVISION.	MATERIAL.			Total Miles.	Sidewalks Repaired.	Total Work.
	Wood.	Stone.	Concrete.			
South.....	201.11	15.98	36.09	253.18	75.11	329.29
West	240.16	12.09	11.71	263.96	141.17	405.13
North.....	50.17	12.01	24.65	86.83	29.14	115.97
TOTALS.....	491.44	40.08	72.45	603.97	245.42	849.39

Of the above, there have been built of plank walks 59.60 miles by the city under special assessments.

The total number of miles of sidewalk laid in the city, including those constructed on highways controlled by the Park Commissioners, is as follows :

	MATERIAL.			Total Miles.
	Wood.	Stone.	Concrete.	
City	2,240.05	163.83	75.84	2,479.72
Boulevards to West Parks.....		11.05	.895	11.945
Boulevards to South Parks.....		15.98	3.40	19.38
Boulevards to Lincoln Park.....		2.17	2.05	4.22
Total miles.....	2,240.05	193.03	82.185	2,515.265

Miles of wood sidewalk replaced by stone and concrete..... 33.42

STREET LAMPS.

DIVISION.	OIL LAMPS.					GASOLINE LAMPS.					
	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	
North, including Lake View.....	.....	.....	.....	.....	.....	379	82	461	30	431
South, including Hyde Park, Town of Lake, West Boulevard, Cass and Wash. Heights.....	162	.....	162	.....	162	5,134	998	6,132	281	5,851
West, including Jefferson and Cicero.....	558	3	561	133	428	3,467	572	4,039	357	3,682	
TOTALS.....	720	3	723	133	590	8,980	1,652	10,632	668	9,964	
DIVISION.	GAS LAMPS.					ELECTRIC LIGHTS.					
	No. in City, Jan. 1, 1891.	Erected during 1891.	TOTAL.	Discontin- ued in 1891.	No. in City, Dec. 31, 1891.	No. in City, Jan. 1, 1891.	Erected during 1891.	Discontin- ued in 1891.	Total lights op- era'd from city plants Dec. 31, '91	Lighted by Contract.	No. in city Dec. 31, 1891.
North, including Lake View.....	5,178	404	5,582	296	5,286	194	7	1	200	200
South, including Hyde Park, Town of Lake and South Chicago.....	7,992	900	8,892	1,008	7,884	300	42	4	388	188	526
West.....	18,089	1,464	14,553	674	13,879	435	22	2	455	455
TOTALS.....	26,259	2,768	29,027	1,978	27,049	929	71	7	993	188	1,181

Total number of Street Lamps in the city, 88,784.

EXPENSE OF LIGHTING.

The following table shows the cost of lighting the city and maintaining lamps during the year ending December 31, 1891, including the cost of extinguishing under schedules adopted by the Council:

Total cost of lighting and maintaining gas lamps.....	\$414,884 74
For material and lighting oil lamps.....	} 182,653 70
For gasoline used by city for maintaining lamps	
For maintaining electric lamps.....	108,126 32
Total cost of lighting the city.....	<u>\$705,664 76</u>

ELECTRIC LIGHTING.

DISTRICTS.	Estimated Number of Electric Lights required to Light respective Districts.	Number of Electric Lamps in service in the respective Districts, February 21st, 1892.	Balance Required.
Number 1.....	500	338	162
Number 2.....	750	.....	750
Number 3.....	600	.....	600
Number 4.....	600	250	350
Number 5.....	500	.....	500
Number 6.....	1,000	307	693
Number 7.....	400	.....	400
Number 8.....	500	98	402
Number 9.....	400	.....	400
Number 10.....	700	.....	700
Number 11.....	800	.....	800
Number 12.....	600	.....	600
TOTAL.....	7,850	993	6,857

From Professor Barrett's report it will be seen that the total number of arc lights placed in position displacing gas lights is 958, the gas lights thus removed numbering 3,894, making an average of one electric light for four gas lamps, with the candle or illuminating power of the electric light greatly exceeding such proportions.

The following table gives the annual extensions of the system from 1887 to the present date, including the total cost of the same:

YEAR.	Number of Power Houses Erected.	Calculated Capacity of Power Houses in 2,000 Candle Power Lights.	Horse Power of Engines installed.	Number of Arc Lights placed in Operation as a result of Appropriation each Year.	Number of Arc Lights Displacing Gas.	Number of Gas Lights Displaced.	Average Number of Gas Lights each Year for each Electric Light.	Average Displacement of Gas for All Years.	Expended for Electric Light Construction and Maintenance.
1887.....	* 1	† 125	125	105	76	.....	.....	.....	\$ 39,976.25
1888.....	* 1	† 300	300	192	192	826	3	4	69,414.25
1889.....	3	3,000	1,500	372	372	1,452	3 ² / ₁₀	....	307,856.62
1890.....	1	850	425	260	260	1,343	5 ¹ / ₁₀	....	139,630.60
1891.....	.....	.....	.....	64	58	273	4 ⁷ / ₁₀	...	108,126.32
	4	3,850	1,925	993	958	3,894	.....	.....	\$665,004.04

* Abandoned. † Moved to Number 1.

Total expenditure for construction and maintenance, \$802,729.58.

There are 993 2,000-C. P. arc lights operated from city plant.

There are 1,100 16-C. P. lamps operated from city plant.

There are 188 2,000-C. P. arc lights operated under contract.

THE CITY ELECTRIC LIGHT SYSTEM COMPRISES :

Power stations.....	4
125-H. P. high speed engines.....	13
300-H. P. Corliss engine.....	1
100-H. P. tubular boilers, heaters, pumps, etc.....	6
125-H. P. tubular boilers, heaters, pumps, etc.....	15
2,000-C. P. double carbon lamps.....	1,225
Lamp posts and hoods.....	993
60-light high tension dynamos.....	7
60-light low tension dynamos.....	4
50-light high tension dynamos.....	1
35-light high tension dynamos.....	11
35-light low tension dynamos.....	6
30-light low tension dynamos.....	10
Miles of electric light cable.....	169
Number of feet of underground conduit.....	12,109
Number of feet of iron pipe laid underground.....	535,035
Number of man-holes.....	291
Number of hand-holes.....	125

SUMMARY OF CITY ELECTRICAL INSPECTION.

LAMPS INSPECTED.		MOTORS INSPECTED.		
ARC.	INCANDESCENT.		INSTALLMENTS WIRED ONLY.	GENERATORS
Year 1891....3,974	Year 1891...87,918	Year 1891.....840	.....	.....
Previous year...10,467	Previous year...102,869	Previous year..828	.....	.....
Total....14,441	Total...190,382	Total.....668	Total...187	Total..191

RE-INSPECTED.

ARC.	INCANDESCENT.	MOTORS.
Year 1891.....2,457	Year 1891 .....18,549	Year 1891.....88
Total.....16,006	Total.....88	

STATEMENT OF YEARLY INSPECTION OF ELECTRIC LIGHT LAMPS
FROM FEBRUARY 14, 1884, TO JANUARY 1, 1892.

YEAR.	NO. OF ARC LIGHTS.	NO. INCANDESCENT
1884.....	1,148	1,885
1885.....	829	7,609
1886.....	479	5,225
1887.....	887	5,424
1888.....	2,869	17,717
1889.....	2,623	24,966
1890.....	2,682	39,543
1891.....	3,974	87,918
Totals	14,441	190,282

PARKS.

The cost of maintaining the various parks under the control of this Department during the past year was as follows :

Irving Park.....	\$ 162 25
Lake Park.....	214 50
Ellis Park.....	1,672 15
Douglas Monument Square.....	1,153 94
Aldine Square.....	769 93
Bickerdike Square.....	749 45
Union Square, Green Bay Park and Oak Park.....	880 67
Washington Square.....	2,140 67
Shedd's Park.....	244 26
Gross Park.....	60 50
Jefferson (Town) Park.....	418 67
Total expenditures.....	\$ 8,466 99

The report of the Commissioner of Buildings shows that during the past year 11,805 buildings were erected, extending over an aggregate frontage of 282,672 lineal feet, or over fifty-three miles, at a cost of over \$54,001,800, the same being distributed in the divisions of the city as follows :

DIVISION.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONTAGE IN MILES.	ESTIMATED VALUE.
North.....	501	15,187	2.46	\$4,490,300 00
South.....	1,063	32,322	6.06	20,180,200 00
West.....	3,691	92,898	17.31	12,613,900 00
Hyde Park.....	2,103	48,037	9.05	8,260,100 00
Town of Lake.....	3,008	62,799	11.47	5,503,400 00
Lake View.....	1,439	31,429	5.50	2,953,900 00
GRAND TOTALS.....	11,805	282,672	51.85	\$54,001,800 00

COMPARISON WITH EIGHT PREVIOUS YEARS.

YEAR.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONT- AGE IN MILES.	ESTIMATED VALUE.
1883.....	4,086	85,588	16.2	\$17,500,000 00
1884.....	4,169	98,782	18.6	20,689,600 00
1885.....	4,638	108,850	20.6	19,624,100 00
1886.....	4,664	112,302	21.2	21,324,400 00
1887.....	4,833	115,506	21.8	19,778,100 00
1888.....	4,958	116,419	22.0	20,360,800 00
1889.....	7,590	181,126	34.3	31,516,000 00
1890.....	11,608	266,284	50.4	47,322,100 00
1891.....	11,805	282,672	53.4	54,001,800 00
Totals	58,351	1,367,529	258.5	\$252,116,900 00

There were moved under the supervision of the Department of Public Works 1,377 frame and 148 brick buildings, a total of 1,525. They varied from one to four stories high, and had a frontage of 31,390 lineal feet, or nearly six miles.

CONCLUSION.

The funds appropriated by the Honorable City Council and entrusted to this Department to be expended in the construction and maintenance of public improvements have been applied in a manner to justly, and, without prejudice, meet the demands of each division, and to give to the whole city a faithful and efficient service to the full extent of the financial resources of the Department and the best ability and energy of its officers and employes.

In closing permit me to extend to His Honor Mayor Washburne my thanks and appreciation for his co-operation and support in important matters connected with this Department, and to the Honorable City Council for their uniform courtesy in all official matters.

To the heads of bureaus I desire to express my approbation of the skill and energy displayed in the performance of their respective duties, and notwithstanding the changes incident to a new administration the efficiency of the public service has not been impaired, nor has the city suffered any material or financial loss thereby.

The reports of the Superintendents of the various bureaus which follow will furnish in detail the extent and cost of the improvements and labor accomplished during the year, and are herewith respectfully submitted.

Respectfully,

J. FRANK ALDRICH,
Commissioner.

MISCELLANEOUS DATA—1891.

Chicago covers an area of nearly one hundred and eighty and two-tenths square miles, or.....	115,328 acres
Population of the city.....	1,350,000
Total bonded city indebtedness.....	\$13,545,400.00
Total value of real estate, buildings, etc., owned by the city.	\$37,690,876.24
Assessed valuation of real and personal property.....	\$256,594,574 00
Number of school buildings owned by the city.....	225
Number of rented buildings used for school purposes.....	77
Average number of children attending public schools.....	126,326
Average number of children attending private schools.....	70,558
Number of teachers in public schools.....	3,195
Number of teachers in private schools.....	2,146
Number of churches.....	513
Number of railroads entering the city.....	35
Number of miles of surface track of railroads entering the city	1,429
Number of street car companies.....	8
Number of miles of street railway tracks.....	395.47
Number of miles of cable street railways.....	68
Number of police station buildings.....	37
Number of patrol barns.....	15
Number of horses in use.....	179
Number of patrol wagons.....	15
Number of ambulances	2
Number of men on force.....	2,298
Number of miles of telegraph wire in use.....	640
Number of engine and hook and ladder houses.....	99
Number of fire engines.....	72
Number of fire boats.....	3
Number of hook and ladder trucks.....	28
Number of chemical fire engines.....	23
Number of firemen employed	998
Number of horses used in Department.	421
Number of police and fire alarm boxes.....	1,917
Number of miles of telegraph wire in use.....	460
Number of miles of electric wire used by the city.....	1,060
Number of electric lights for city purpose.....	993
Number of acres in public park system	2,597.75
Number of miles of drives and walks in parks and boulevards	95.43
Number of miles of streets in city.....	2,332.01
Number of miles of paved streets.....	774.78

Number of miles of sidewalks.....	2,837
Number of miles of sewers.....	888
Number of miles of water mains.....	1,346.75
Number of miles of water tunnels in use.....	9.05
Number of miles of water tunnels in process of construction.....	8
Number of river traffic tunnels.....	2
Number of bridges over the Chicago river.....	53
Number of bridges over the Calumet river.....	5
Number of bridges over the Illinois & Michigan canal.....	3
Number of viaducts over railroad tracks.....	31
Number of street lamps in city.....	70,076
Number of miles of river frontage.....	41
Number of buildings erected.....	11,805
Estimated cost of buildings erected.....	\$54,000,000
Number of vessels arriving during the year.....	10,224
Number of vessels departing during the year.....	10,294
Representing tonnage of.....	11,031,553
Number of vessel-towing tugs.....	39
Number of feet of lumber received.....	2,046,796,000
Number of feet of lumber shipped.....	870,931,000
Number of shingles received.....	304,787,000
Number of shingles shipped.....	99,132,000
Number of bushels of grain received.....	211,496,653
Number of barrels of flour received.....	4,516,617
Number of hogs received.....	8,600,805
Number of cattle received.....	3,250,359
Number of sheep received.....	2,158,537
Number of pounds of cured and dressed beef received.....	311,960,733
Number of pounds of cured and dressed beef shipped.....	1,628,983,737
Bank clearings for the year.....	\$4,456,885,230

POST OFFICE.

Receipts from cards, stamps and envelopes.....	\$3,693,877 50
Money orders, amount received and disbursed.....	\$20,396,166 00
Registry of mails.....	3,265,538
Number of pieces of mail handled.....	299,073,850
Number of wagons in use for conveying mails to and from depots.....	56
Number of mail wagons collecting from boxes.....	50
Number of clerks employed.....	852
Number of carriers employed.....	769
Number of horses in use.....	119

REPORT

OF THE

Bureau of Engineering

CITY OF CHICAGO

CITY ENGINEER'S REPORT.

CHICAGO, February 15, 1892.

J. FRANK ALDRICH, Esq.,

Commissioner of Public Works.

DEAR SIR:—I have the honor to submit herewith the annual report of the City Engineer's office for the year 1891.

The subject matter is treated under the following main headings, viz.:

1. Harbor.
2. Bridge and Viaduct Construction.
3. Bridge and Viaduct Repairs.
4. Main Sewerage Works.
5. Water Pipe Extension and Maintenance and Meter Service.
6. Water Works Operation and Construction.

HARBOR.

Mr. Ricard O. S. Burke is the engineer in charge of dredging, docking and surveys.

W. H. B. Deane is the Harbor Master, and Richard Powers is the Vessel Despatcher.

During the year the following work was done under contracts and under special orders from the Commissioner of Public Works:

Sec. 1.....	6,498	yards.....	\$ 974 70
" 2.....	20,115 $\frac{1}{2}$	"	3,017 30
" 3.....	9,490	"	1,803 10
" 4	14,995	"	2,999 00
" 5.....	23,078	"	4,384 82
" 8.....	31,509	"	7,247 07
" 9.....	52,487	"	9,972 50
" 10.....	17,684	"	2,652 60
" 11.....	5,526	"	994 68
" 12.....	20,060	"	3,960 39
" 13.....	58,993	"	9,438 88
Totals.....	260,435 $\frac{1}{2}$	yds	\$47,445 04

which gives a little less than eighteen and one-quarter ($18\frac{1}{4}$) cents per cubic yard for the total work. Of this 257,276 cubic yards at a cost of \$46,756.58 were done under contracts. Comparing this work and cost with the work and cost of last year gives a net saving on this year's work of $14\frac{11}{100}$ cents per cubic yard, amounting for the whole work to a saving of \$38,700.69, or a little over 81 per cent. of the actual cost of the work.

Private dredging to the amount of three hundred and thirty-nine thousand (339,000) cubic yards was done by the local companies during the year.

For the building, renewal and repairing of docks seventy-nine (79) permits were issued.

The city expended for the repairs of docks at street ends and other places, \$1,431.46.

The following tables, compiled from the records of the Bureau, show mean water in Lake Michigan by years from 1854 to 1891, both inclusive, and the stages of water in the Chicago river and Lake Michigan, observed at Chicago avenue pipe yard and the old two-mile crib respectively, for every month of the year 1891, with a comparison of the conditions at the Chicago avenue pipe yard and the two-mile crib. The latter table shows the dates and amounts of greatest daily range in each month.

Special attention is called to the very low stage of water in Lake Michigan during the year.

TABLE SHOWING MAXIMUM, MINIMUM AND MEAN WATER IN LAKE
MICHIGAN ANNUALLY, FROM 1854 TO 1891, BOTH INCLUSIVE:

Year.	Max.	Min.	Mean.	Year.	Max.	Min.	Mean.
1854.....			1.83	1873.....	2.70	-0.76	1.40
1855.....	3.45	0.15	1.56	1874.....	2.80	-0.20	1.67
1856.....	3.05	0.42	1.60	1875.....	3.01	-0.34	1.45
1857.....	4.35	0.60	2.42	1876.....	4.31	0.34	2.56
1858.....	4.69	1.33	2.	1877.....	3.56	1.04	2.31
1859.....	4.45	1.31	2.98	1878.....	3.14	0.51	2.00
1860.....	3.53	1.30	2.54	1879.....	2.51	-0.49	1.06
1861.....	4.40	1.20	2.56	1880.....	2.81	-0.99	1.16
1862.....	3.30	0.70	2.50	1881.....	3.01	-2.19	1.26
1863.....	3.30	-0.80	2.10	1882.....	3.01	-0.99	2.00
1864.....	2.80	-0.40	1.57	1883.....	3.81	-0.99	2.10
1865.....	3.66	-1.08	1.30	1884.....	3.31	-0.01	2.24
1866.....	2.50	0.00	1.07	1885.....	3.71	-0.01	2.48
1867.....	2.60	-0.41	1.49	1886.....	4.41	0.01	2.64
1868.....	2.58	-1.00	1.01	1887.....	3.11	0.01	1.96
1869.....	2.13	0.41	1.13	1888.....	3.01	0.01	1.30
1870.....	3.25	-0.30	2.09	1889.....	2.51	-0.79	0.77
1871.....	2.80	-0.40	1.77	1890.....	2.21	-0.99	0.63
1872.....	1.80	-0.74	0.81	1891.....	1.61	-2.39	0.05

TABLE SHOWING HIGHEST, LOWEST, AND MEAN WATER BY MONTHS
DURING YEAR 1891, IN CHICAGO RIVER AND LAKE MICHIGAN, WITH
COMPARISON AND GREATEST DAILY RANGE:

MONTHS	CHICAGO RIVER AT CHI- CAGO AV. PIPE YARD.			LAKE MICHIGAN.			MEANS COMPARED.			GREATEST DAILY RANGE.	
	Max.	Min.	Mean.	Max.	Min.	Mean.	River.	Lake.	River over Lake.	Feet.	Date.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.		
Jan....	1.48	-0.88	0.58	1.61	-1.58	0.06	0.58	0.06	0.47	2.8	Jan. 19
Feb....	0.68	-0.07	0.81	0.71	-0.99	-0.11	0.81	-0.11	0.49	1.2	Feb. 5
March..	1.00	-0.07	0.54	0.61	-1.89	0.07	0.54	0.07	0.47	1.5	Mar. 15
April...	1.20	0.57	0.88	0.71	-0.09	0.27	0.88	0.27	0.61	0.4	April 10
May....	1.40	0.68	0.96	0.71	0.01	0.38	0.96	0.88	0.58	0.4	May 4
June....	1.40	0.88	1.10	1.21	0.21	0.53	1.10	0.53	0.57	0.4	June 4
July....	1.70	0.67	0.98	1.01	0.11	0.43	0.98	0.43	0.55	0.4	July 2
August..	1.07	0.60	0.80	1.01	0.11	0.41	0.80	0.41	0.39	0.8	Aug. 21
Sept....	0.87	0.17	0.64	1.81	-0.49	0.18	0.64	0.18	0.46	0.8	Sept. 9
Oct....	0.70	-0.40	0.32	0.91	-0.89	-0.17	0.22	-0.17	0.39	.06	Oct. 17
Nov....	0.40	-1.30	-0.19	0.01	-1.79	-0.64	-0.19	-0.64	0.45	1.1	Nov. 4
Dec....	0.43	-1.07	-0.38	0.51	-2.39	-2.76	-0.88	-0.76	0.38	1.2	Dec. 1
Means, annual....			0.58			0.05			0.48		

Table showing precipitation and mean temperature in inches and degrees Fahrenheit over the basin of the upper lakes, and mean water in Lake Michigan in inches by years from 1871 to 1891, both inclusive, with the annual increase or decrease :

YEAR.	BASIN OF UPPER LAKES.						LAKE MICHIGAN.		
	PRECIPITA- TION.	DIFFERENCE WITH PRECEDING YEAR.		MEAN TEMPER'E	DIFFERENCE WITH PRECEDING YEAR.		LEVELS OF MEAN WATER.	DIFFERENCE WITH PRECEDING YEAR.	
	Inches.	Increase.	Decrease.	Degrees.	Increase.	Decrease.	Inches.	Increase.	Decrease.
1871	28.56	....	....	47.1	....	....	21.24	....	....
1872	29.68	1.12	....	43.9	....	3.2	9.62	....	11.62
1873	31.95	2.27	....	44.2	0.3	....	16.80	7.18	....
1874	29.69	....	2.26	45.8	1.6	....	20.04	3.24	....
1875	33.81	4.12	....	41.9	....	3.9	17.40	....	2.64
1876	39.13	5.32	....	44.7	2.8	....	30.72	13.32	....
1877	36.11	....	3.2	47.2	2.5	....	27.72	....	3.00
1878	37.92	1.81	....	49.3	2.1	....	24.00	....	3.72
1879	35.12	....	2.80	46.6	....	2.7	12.72	....	11.28
1880	36.36	3.24	....	47.0	0.4	....	13.92	1.20	....
1881	43.66	5.30	....	46.6	....	0.4	15.12	1.20	....
1882	37.85	....	5.81	47.0	0.4	....	24.00	8.88	....
1883	34.82	....	3.03	42.4	....	4.6	25.20	1.20	....
1884	37.34	2.52	....	44.5	....	2.1	26.88	1.68	....
1885	33.47	....	3.87	42.1	....	2.4	28.56	1.68	....
1886	30.15	....	3.32	44.4	2.3	....	31.68	3.12	....
1887	27.91	....	2.24	44.3	....	0.1	23.52	....	8.16
1888	29.27	1.36	....	43.1	....	1.2	15.60	....	7.92
1889	28.28	....	0.99	45.8	2.7	....	9.24	....	6.36
1890	34.45	6.17	....	46.1	0.3	....	7.56	....	1.68
1891	29.64	....	4.81	46.7	0.6	....	0.60	....	6.96

Means, for twenty-one years, 33.67 inches; 45.3 degrees; 1.6 feet.

An increase of precipitation in any year over its next preceding one, with no change or but a slight one in mean temperature, affects the following year generally. The years 1881-1882 are good instances. In 1881 the precipitation increased $5\frac{3}{10}$ inches over that of 1880 and the mean temperature fell $\frac{4}{10}$ of one degree, the mean water of the lake going from 15.12 inches in 1881 to 24.00 inches in 1882, above datum, notwithstanding that in the latter year there was a decrease of over $5\frac{8}{10}$ inches in precipitation, with a very slight increase of mean temperature. In the year 1883 there was a decrease in precipitation of $3\frac{3}{10}$ inches over that for 1882, but the table shows an increase in the mean level of the lake. Why? The table shows that during the year 1883 the mean temperature had fallen $4\frac{6}{10}$ degrees below that for 1882, thereby decreasing the volume evaporated from the vast area of the lake surface to such an extent as to overcome the normal effect of the decrease

in precipitation. This effect of temperature over the lake basin is a most important one, as already shown. An examination of the year 1878 will yield additional evidence. We find in the table a precipitation of 37.92 inches, or an increase of $1\frac{81}{100}$ inches over 1887, the mean temperature being $49\frac{3}{10}$ degrees (the highest of any year from 1871 to 1891), an increase of $2\frac{1}{10}$ degrees over the preceding year (which in itself was nearly 2 degrees higher than the normal of 21 years); we find this high mean temperature by its great evaporation overcome the effect of the increase in precipitation and reduce the lake from 24.00 inches in 1878 to 12.72 inches in 1879. Although the precipitation of 1885 is below the normal of 21 years, and $3\frac{87}{100}$ inches lower than that for 1884, the extremely low mean temperature of 1885 being $2\frac{4}{10}$ degrees lower than the preceding year increases the lake level about 3 inches over the previous.

The stage of water in Lake Michigan during the past year has been the lowest in the history of the city. The level of the lake during the year was below datum for one hundred and thirty days (130) days, as against 31 days in 1890, and during a total of three hundred and thirty-five (335) days the level of the lake went no higher at any time than six (6) inches above datum, as against one hundred and sixty-five (165) days in 1890.

From the preceding table no hope can be drawn for any improvement of the harbor conditions for the year 1892 unless we have heavy precipitation before the frost is out of the ground, so that it will pass directly into the lake, or the temperature over the basin of the upper lakes falls materially. A combination of these two conditions would yield a better result. An annual precipitation of about thirty-six (36) inches over the catchment area of the upper lakes would, it appears, at a constant normal temperature, keep the lake at about level from year to year.

The Board of Trade reports, and the kindness of Capt. J. M. Clark, Collector of the Port, of the Commissioners of the Illinois & Michigan canal, and of the local officers of the Weather Bureau, furnished the data for the compilation of the following diagram and series of tables :

COMMERCE BY LAKE AND CANAL—CITY OF CHICAGO, FROM YEARS 1871
TO 1891, BY YEARS—WITH POPULATION.

Year.	VESSELS BY LAKE.			BY ILL. & MICH. CANAL.			POPULATION.
	Total No.	Total Tonnage.	Average Cargo, Ton.	Boats, No.	Tonnage.	Tolls, Dollars.	
1871	24,632	6,178,336	251	186	629,975	\$ 159,050	334,270
1872	25,355	6,077,542	239	173	783,641	165,874	367,396
1873	23,734	6,564,542	239	172	849,533	166,641	380,000
1874	21,547	6,329,711	294	152	712,020	144,831	395,400
1875	21,095	6,279,055	298	142	676,025	107,081	407,000
1876	19,245	6,167,736	320	145	691,943	113,293	420,000
1877	20,517	6,585,415	321	145	605,912	96,913	439,776
1878	20,984	7,239,673	345	140	598,792	84,330	450,000
1879	23,873	7,757,395	325	136	669,559	89,064	475,000
1880	25,520	9,154,351	345	133	751,360	92,296	503,298
1881	26,005	8,762,247	337	133	826,133	85,130	540,000
1882	26,977	9,754,949	362	132	1,011,287	85,947	560,693
1883	23,982	7,793,337	325	132	925,575	77,975	580,000
1884	22,826	7,508,696	330	134	956,721	77,102	630,000
1885	21,542	7,306,222	339	135	827,355	66,800	664,634
1886	22,372	7,877,080	352	130	808,019	62,516	704,000
1887	23,972	8,749,852	365	132	742,074	58,025	760,000
1888	22,095	8,890,658	402	127	751,055	56,028	830,000
1889	21,788	10,267,831	471	114	917,047	65,305	1,100,000
1890	20,133	10,116,051	502	104	742,392	55,111	1,200,000
1891	19,681	10,862,898	552	97	641,156	49,457	1,320,000

STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1891.

DATE.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
1891.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	64	36	45	35	25	30	26	9	18	50	37	44	59	50	54	76	51	68
2.....	23	18	20	39	23	31	27	17	23	42	36	39	60	39	50	55	48	52
3.....	27	18	22	13	-2	6	30	22	26	31	25	28	52	39	46	84	52	68
4.....	31	20	26	14	-8	3	26	7	16	28	23	26	42	35	38	27	44	46
5.....	33	21	27	40	10	25	34	18	26	37	25	31	46	36	41	54	46	50
6.....	34	26	30	42	28	35	34	22	28	36	28	32	44	38	41	57	49	53
7.....	32	22	27	38	34	36	30	26	28	37	33	35	69	41	55	63	50	56
8.....	33	26	30	34	29	32	37	28	32	37	31	34	75	50	62	64	53	58
9.....	34	28	31	36	21	28	25	17	21	40	33	36	81	54	68	75	53	64
10.....	38	30	34	31	9	20	49	17	33	52	39	46	62	42	52	79	66	72
11.....	35	24	30	43	22	32	48	27	38	48	36	42	57	42	50	68	63	66
12.....	32	25	28	46	29	38	28	14	21	49	40	44	66	50	58	72	59	66
13.....	31	10	20	39	32	36	24	17	20	74	44	59	71	53	62	73	62	68
14.....	33	22	28	49	29	39	21	7	14	54	39	46	67	45	56	84	66	75
15.....	38	22	30	54	33	44	45	14	30	44	35	40	78	48	63	85	68	76
16.....	34	24	29	48	35	42	30	25	28	61	38	50	44	36	40	87	70	78
17.....	28	24	26	38	32	35	57	26	42	72	51	62	54	41	48	63	54	58
18.....	29	21	25	22	11	16	35	32	34	70	53	62	68	47	58	65	56	60
19.....	43	24	34	32	21	26	34	28	31	49	41	45	72	55	64	70	61	66
20.....	41	33	37	42	29	36	37	31	34	62	41	52	74	58	66	65	59	62
21.....	37	32	34	34	26	30	36	33	34	70	49	60	72	50	61	77	59	68
22.....	34	30	32	32	14	23	44	34	39	71	54	62	46	43	44	76	63	70
23.....	30	26	28	53	30	42	43	35	39	66	41	54	51	44	48	77	69	73
24.....	27	19	23	58	44	51	32	32	32	48	39	44	59	44	52	84	67	76
25.....	38	21	30	27	19	23	37	31	34	57	43	50	59	42	50	88	70	79
26.....	34	28	31	22	12	17	34	32	33	75	45	60	48	41	44	70	62	66
27.....	40	30	35	24	11	18	35	32	34	67	54	60	57	44	50	78	60	69
28.....	37	32	34	14	4	9	38	33	36	49	43	46	59	50	54	82	65	74
29.....	46	34	40	.....	.....	.....	50	34	42	72	45	58	60	51	56	80	65	72
30.....	40	28	34	.....	.....	.....	52	39	46	70	59	64	63	52	58	68	55	62
31.....	39	32	36	.....	.....	.....	43	40	42	.....	.....	.....	80	58	69	.....	.....	.....
Means...	35.0	25.4	30.2	35.7	21.5	28.6	36.2	25.1	30.6	53.9	40.0	47.0	61.1	45.7	53.4	72.2	59.2	65.7

STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1891—CONTINUED.

DATE.	JULY.			AUGUST.			SEPT.			OCTOBER.			NOV.			DEC.		
1891.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	70	55	62	76	64	70	73	59	66	78	57	68	40	28	34	40	24	32
2.....	71	58	64	66	63	64	84	63	74	86	64	75	43	35	39	45	35	40
3.....	72	56	64	69	62	66	59	53	56	84	66	75	44	31	38	56	43	50
4.....	73	59	66	70	61	66	61	56	58	53	50	52	46	33	40	38	31	34
5.....	73	55	64	77	64	70	63	58	60	59	40	50	49	37	43	39	33	36
6.....	68	62	65	87	64	76	70	54	62	60	47	54	53	35	44	32	26	29
7.....	64	56	60	91	68	80	62	59	60	57	47	52	60	45	52	19	10	14
8.....	61	55	58	94	71	82	66	54	60	58	48	53	57	48	52	39	16	28
9.....	69	58	64	96	73	84	69	55	62	58	47	52	48	44	46	42	32	37
10.....	74	60	67	82	68	75	71	58	64	63	46	54	45	40	42	44	32	38
11.....	84	63	74	82	68	75	74	58	66	58	51	54	44	35	40	42	36	39
12.....	87	65	76	70	59	64	71	65	68	58	45	52	43	32	38	44	30	37
13.....	85	69	77	73	62	68	72	57	64	67	42	54	32	25	28	50	34	42
14.....	74	65	70	78	66	72	81	56	68	50	41	46	36	28	32	57	43	50
15.....	72	57	64	74	67	70	76	65	70	46	38	42	60	32	46	55	34	44
16.....	81	62	72	78	67	72	89	62	76	60	36	48	37	32	34	36	28	32
17.....	80	65	72	84	70	77	90	68	79	56	45	50	17	8	12	30	16	23
18.....	64	60	62	86	69	78	88	71	80	54	44	49	26	9	18	34	24	29
19.....	73	56	64	81	72	76	87	70	78	45	38	42	34	21	28	38	26	32
20.....	72	62	67	82	70	76	89	67	68	58	37	48	40	31	36	46	27	36
21.....	78	62	70	74	63	68	70	69	72	52	43	48	52	40	46	53	36	44
22.....	86	71	78	66	58	62	82	69	76	48	33	40	43	37	40	42	37	40
23.....	82	68	75	64	55	60	86	71	78	64	38	51	39	34	36	44	35	40
24.....	68	60	64	63	54	58	91	71	81	56	48	52	29	20	24	44	36	40
25.....	69	58	64	75	53	64	80	70	75	73	46	60	34	20	27	52	34	43
26.....	66	59	62	73	60	66	77	67	72	68	50	59	40	27	34	16	9	12
27.....	73	58	66	65	58	62	87	68	78	44	36	40	31	21	26	36	12	2
28.....	74	56	65	63	49	56	79	66	72	56	37	46	13	7	10	48	29	38
29.....	76	65	70	68	53	60	62	48	55	72	44	58	19	3	11	40	32	36
30.....	64	60	62	69	52	60	66	55	60	68	52	60	29	8	18	43	27	35
31.....	71	61	66	65	55	60	.....	.....	.....	52	42	47	.....	.....	.....	46	36	41
Means	73.4	60.5	67.0	75.5	62.5	69.0	76.0	62.1	69.0	60.0	45.1	52.6	39.4	28.2	33.8	41.6	29.1	35.4

PRECIPITATION AT CHICAGO, ILL., FOR EACH MONTH AND YEAR FROM
JANUARY, 1871, TO DECEMBER, 1891, INCLUSIVE.

YEAR.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1871	4.13	1.45	2.66	3.70	3.90	5.56	2.52	2.01	0.74	.....	3.62	3.44	.....
1872	0.68	0.84	3.79	3.03	3.24	3.45	3.09	2.59	6.43	0.65	1.06	0.22	29.07
1873	2.56	0.47	0.89	6.22	7.20	1.44	4.04	1.58	3.53	2.43	1.61	4.44	36.41
1874	3.47	1.51	2.15	2.67	2.08	3.25	0.58	3.15	3.76	2.55	2.83	0.63	28.63
1875	0.96	1.99	1.43	2.32	3.64	5.17	7.18	3.29	4.39	4.32	0.75	2.62	38.06
1876	3.22	3.90	4.04	2.07	1.85	5.96	3.11	3.66	3.74	1.20	3.25	0.48	36.48
1877	1.91	0.06	5.37	2.42	1.81	6.04	2.98	3.06	2.02	6.51	6.08	2.75	41.01
1878	1.31	2.12	4.39	5.57	5.22	3.02	6.09	3.66	1.99	5.17	0.83	2.58	41.95
1879	0.54	1.47	2.37	1.93	3.89	3.18	5.58	0.45	1.18	2.72	4.93	2.47	30.71
1880	3.53	2.91	2.25	5.20	4*97	3.50	3.07	4.47	2.25	3.19	0.87	1.11	37.32
1881	0.87	5.98	2.99	1.84	1.85	5.93	4.31	0.54	4.34	6.89	5.97	2.67	44.18
1882	1.55	2.24	3.43	6.72	5.52	5.71	3.43	4.96	0.91	3.40	1.48	1.99	41.34
1883	1.74	4.74	0.42	3.72	7.32	5.61	5.53	1.21	1.36	7.36	5.26	1.59	45.86
1884	1.39	3.27	5.16	3.05	1.53	2.11	3.71	2.50	2.29	3.59	1.80	4.21	34.61
1885	3.18	2.01	0.57	4.00	3.17	5.20	2.44	11.28	2.97	3.87	2.33	3.35	44.37
1886	3.56	1.51	1.79	1.29	1.00	0.94	1.53	3.38	6.93	1.42	1.66	1.76	26.77
1887	3.13	5.10	0.89	0.46	1.38	1.63	1.05	3.35	4.03	2.03	2.41	3.67	29.13
1888	1.56	1.51	2.99	2.13	6.22	1.66	3.93	2.10	0.98	2.95	2.89	1.94	30.86
1889	1.64	1.31	1.43	2.35	5.38	2.93	9.56	0.39	2.75	1.82	3.49	1.90	34.95
1890	2.98	2.42	2.10	3.23	5.13	3.25	2.57	2.58	1.39	4.20	1.59	1.25	32.09
1891	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.32	0.36	3.83	1.32	26.54
Sums	45.90	48.76	53.24	67.06	78.39	77.96	78.77	64.73	58.80	*66.63	58.54	46.39	*710.94
Means	2.19	2.32	2.54	3.19	3.73	3.71	3.75	3.08	2.78	*3.33	2.79	2.21	*35.55

* 20 years only. Remainder for 21 years.

STATEMENT SHOWING THE AMOUNT OF PRECIPITATION AT
CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1891.

DATE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	1.25	.02	.....	Trace	.....	Trace	.....	.03	.....	.....	.....	.....
2.....	.31	.03	.33	Trace	.40	.46	.23	.02	Trace	.....	.....	Trace
3.....	.01	.01	.15	.07	.09	.21	.12	.....	.20	.....	.....	.06
4.....	.....	.....	Trace	.01	Trace	.15	.....	.....	.....	.03	.....	.09
5.....	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	Trace	.....
6.....	.01	.....	.13	.06	.....	.11	.03	.....	.....	.05	Trace	.55
7.....	.....	.....	.01	.....	.....	.....	1.26	.....	.....	.16	.01	.01
8.....	.....	Trace	.22	.....	.....	.....	.....	.....	.....	Trace	.20	.....
9.....	.....	.04	Trace	1.16	.....	Trace	.....	.24	.....	.....	.84	.....
10.....	.01	.....	.....	.32	.17	.....	.....	.05	.....	.....	.82	.....
11.....	.....	.....	.09	.04	.03	.....	.....	.01	.....	.....	Trace	.....
12.....	.01	.....	.02	.....	.....	.....	.....	.....	.08	.....	.....	.....
13.....	Trace	.....	.....	Trace	Trace	.....	.02	.....	.....	Trace	.....	.....
14.....	.....	.....	.....	.47	.....	Trace	.72	.....	.....	.06	.07	.22
15.....	.....	.....	Trace	.03	.....	.12	.....	.....	Trace	.....	.58	.25
16.....	Trace	.06	.....	.....	.....	.....	.....	.....	.....	.....	.16	Trace
17.....	.....	.35	Trace	.22	.....	.20	.07	Trace	.....	.06	Trace	.....
18.....	.....	.01	Trace	.19	.....	.16	.02	.....	.....	.....	.....	.....
19.....	.....	.04	.06	.....	.....	.17	.....	.68	.....	.....	Trace	.....
20.....	.....	.95	.02	.13	Trace	.03	.....	.40	.....	.....	.23	.....
21.....	.14	.....	.25	.21	.55	.....	.....	.....	.....	.....	.29	.01
22.....	Trace	.....	Trace	.11	.84	.....	Trace	.....	.....	.....	.02	.08
23.....	.01	.....	.....	.....	.....	.....	.....	1.11	.....	.....	Trace	.....
24.....	Trace	.38	Trace	.....	.....	.....	.....	.97	.....	.....	Trace	.05
25.....	.....	.03	.....	.....	.01	.....	.....	.....	.....	.....	Trace	Trace
26.....	.....	.....	.13	.....	.....	.....	.....	Trace	.....	.....	Trace	Trace
27.....	.....	Trace	.13	.....	.....	.....	.....	1.01	.....	.....	.61	.....
28.....	.02	.03	.01	.....	.....	.79	.....	.....	.01	.....	Trace	.....
29.....	.07	.....	.....	.....	.....	.02	.....	Trace	.03	.....	.....	.....
30.....	Trace	.....	.54	.02	.....	.....	.....	Trace	.....	.....	.....	.....
31.....	.15	.....	.04	.....	.....	.....	.....	.....	.....	.....	.....	Trace
Total.....	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.32	0.96	3.83	1.32

Annual, 26.54

TRACE—Indicates precipitation too small to measure.

Dock lines have been established along the West branch of the East fork of the South branch. A survey of the North branch from near the North Western avenue bridge north to a point about half a mile north of Lawrence avenue has been commenced.

The traffic on the river has largely increased, as compared with the preceding year, although the depth of the river, on account of the low lake level, has been about a foot below the average of the year 1890.

The river traffic has been carried on with fair satisfaction to the vessel interests, and with much less detention to land travel at the bridge crossings than might reasonably be expected.

This avoidance of unusual detention, notwithstanding the great increase in vessel traffic and the very low stage of the water, is due to the appointment of a sufficient force of assistants to the Harbor Master to insure continuous service. So that when, by the aid of our bridge telephones and Vessel Despatcher, we received notice of blockades at any point our force was promptly on hand to clear it, and thus enable vessels to move up and down the river by night as well as by day. As every facility offered to night traffic on our river tends to relieve the pressure and detention at our bridge crossings during the day-time, when the streets are crowded, it pays to offer every facility to vessels desiring to make their trips after business hours.

There have been no blockades caused by wreckage during the year 1891.

The principal bridge detention, by grounded vessels, has been one at Division street, for twenty-four hours, by the Steamer Hesper, which grounded on account of the low water. A recurrence of similar delay at that point has been guarded against by removing piles and dredging the draws.

But one other serious detention occurred. This was at Archer avenue bridge, where, on October 5, the Steamer H. S. Pickands grounded in the draw owing to the low water, and, while four tugs were trying to pull her out, one of the tugs, the C. W. Parker, exploded her boiler and sank in such a position as to prevent the withdrawal of the Pickands until after the removal of the Parker, a period of about forty hours.

The river telephone system, inaugurated in 1887, has fully demonstrated its usefulness to the general public.

In 1891 we had an enormously large increase of tonnage to handle in the port of Chicago over that of 1890, it being 493,690 tons more than that of last year.

The following tables show what vessels of all descriptions arrived and cleared within the season of 1891, and within the district of the port of Chicago.

We have in port at present 998 vessels of all classes, divided as follows: Steam, 496; sail, 502, with an aggregate carrying capacity of 1,000,000 tons.

CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1883	11,208	3,555,586	11,271	3,743,574	22,474	7,299,160
1884	10,518	3,481,957	10,640	3,489,666	21,158	6,971,623
1885	9,846	3,347,647	9,910	3,364,169	19,756	6,711,816
1886	10,180	3,546,809	10,267	3,594,549	20,447	7,140,858
1887	10,828	3,868,465	10,920	3,989,615	21,748	7,858,000
1888	10,158	3,990,921	10,808	4,184,064	20,466	8,124,985
1889	9,552	4,417,415	9,462	4,408,634	19,014	8,821,049
1890	9,188	4,844,502	9,284	4,429,654	18,472	8,774,156
1891	8,956	4,569,526	9,144	4,698,320	18,100	9,267,846

SOUTH CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1890	860	707,670	801	684,225	1,661	1,841,895
1891	847	870,188	784	724,864	1,581	1,595,052

REPORT OF THE VESSEL DESPATCHER'S OFFICE,

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 8:00 A. M. AND 9:00 P. M.

BRIDGES.

	RUSH.	STATE.	DEAR- BORN.	CLARK.	WELLS.	LAKE.	RAN- DOLPH.	MADISON.	ADAMS.	JACKSON.
	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.
Number of days in service	257	259	259	259	258	259	258	258	257	259
Total time open	464 54	460 40	465 50	460 1	454 10	480 41	455 18	432 19	440 35	436 10
Total number of vessels passed through	13,400	12,730	12,700	12,700	13,720	10,220	10,200	10,090	9,800	9,843
Total number of swings	9,054	8,960	8,560	8,740	8,750	7,424	7,420	7,400	7,395	7,420
Average number of vessels per day ...	59.58 +	56.18 +	55.12 +	54.92 +	56.04 +	44.81 +	44.62 +	44.80 +	43.90 +	43.60 +
Average number of swings per day ...	36.40 +	35.70 +	36.99 +	36.14 +	35.80 +	30.60 +	32.60 —	30.60 +	30.20 +	30.07 +
Average number of vessels per swing..	1.56 +	1.48 +	1.52 +	1.50 +	1.48 +	1.49 +	1.42 +	1.50 +	1.40 +	1.42 +
Average time consumed per vessel...	1 36	1 46	1 54	1 35	1 50	2 15	2 18	2 10	2 6	2 6
Average time open per swing	2 32	2 37	2 54	2 20	2 40	3 16	3 13	3 9	2 54	2 55
Average time open per hour	3 46	3 46	4 18	3 20	4 4	3 48	3 50	3 37	3 25	3 24
Average time open per day	92 21	92 4	96 29	80 14	95 5	91 21	92 1	87 58	82 55	82 42

REPORT OF THE VESSEL DESPATCHER'S OFFICE—CONTINUED.

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 8:00 A. M. AND 9:00 P. M.

BRIDGES.

	VAN BUREN.	HARRISON	POLK.	TWELFTH	EIGHT- EENTH.	KINZIE.	INDIANA.	ERIE.	CHICAGO AVENUE.
Number of days in service	257	259	259	258	259	258	258	258	258
Total time open	Hrs. Min. 504 4	Hrs. Min. 515 40	Hrs. Min. 492 51	Hrs. Min. 452 50	Hrs. Min. 530 28	Hrs. Min. 617 54	Hrs. Min. 827 14	Hrs. Min. 812 50	Hrs. Min. 840 47
Total number of vessels passed through.	9,884	9,604	9,563	9,460	9,040	13,376	4,832	4,686	4,966
Total number of swings	7,848	6,819	7,307	7,870	6,902	8,563	4,403	4,231	4,600
Average number of vessels per day.	43.80 +	42.60 +	42.40 +	40.24 +	30.09 +	37.46 +	19.12 +	19.10 +	20.87 +
Average number of swings per day.	28.73 +	26.52 +	28.42 +	29.08 +	26.16 +	33.6 +	14.85 +	14.65 +	15.70 +
Average number of vessels per swing.	1.41 +	1.49 +	1.37 +	1.34 +	1.36 +	1.65 +	1.14 +	1.14 +	1.12 +
Average time consumed per vessel.	Min. Sec. 2 27	Min. Sec. 2 55	Min. Sec. 2 45	Min. Sec. 2 28	Min. Sec. 3 00	Min. Sec. 2 27	Min. Sec. 3 00	Min. Sec. 3 00	Min. Sec. 3 4
Average time open per swing.	3 46	4 11	3 45	3 17	4 12	5 00	3 57	3 57	3 53
Average time open per hour.	4 21	4 28	4 19	3 52	4 21	5 28	2 26	2 20	2 32
Average time open per day.	105 2	108 ..	104 30	98 15	105 35	135 39	69 34	55 28	57 22

REPORT OF THE VESSEL DESPATCHER'S OFFICE,

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 7:00 A. M. AND 7:00 A. M.

BRIDGES.

	RUSH.	STATE.	DEAR- BORN.	CLARK.	WELLS.	LAKE.	RAN- DOLPH.	MADISON.	ADAMS.	JACKSON.
	257	259	259	259	258	259	258	258	257	259
Number of days in service.....	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.
	553 42	631 45	630 01	558 52	578 3	570 50	560 14	549 ..	530 50	530 32
Total time open.....										
Total number of vessels passed through	18,260	17,082	16,513	16,620	16,260	12,880	12,889	12,817	12,463	12,420
Total number of swings.....	12,860	12,270	11,908	12,004	11,360	9,579	9,740	9,467	9,394	9,394
Average number of vessels per day...	80.6 +	79.46 +	77.12 +	77.90 +	70.91 +	56.82 +	57.11 +	56.9 +	55.50 +	54.81 +
Average number of swings per day...	52.7 +	50.7 +	48.6 +	49.2 +	46.4 +	48.3 +	39.2 +	38.1 +	37.9 +	37.8 +
Average number of vessels per swing..	1.43 +	1.43 +	1.44 +	1.44 +	1.47 +	1.40 +	1.38 +	1.40 +	1.37 +	1.37 +
	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.
Average time consumed per vessel....	2 39	2 27	2 29	1 96	2 6	2 2	2 00	1 89	1 86	1 78
Average time open per swing.....	3 12	3 18	3 39	2 95	3 10	3 8	3 78	3 69	3 73	3 63
Average time open per hour.....	5 89	5 69	5 76	4 94	5 20	5 9	5 7	4 94	4 72	4 51
Average time open per day....	146 25	138 4	138 51	118 39	125 32	122 51	122 39	119 21	113 40	108 54

REPORT OF THE VESSEL DESPATCHER'S OFFICE—CONTINUED.

FROM APRIL 15 TO NOVEMBER 30, 1891—BETWEEN THE HOURS OF 7:00 A. M. AND 7:00 A. M.

BRIDGES.

	VAN BUREN.	HARRISON	POLK.	TWELFTH.	EIGHT- EENTH.	KINZIE.	INDIANA.	ERIE.	CHICAGO AVENUE.
	257	259	258	259	258	258	258	258	258
	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.	Hrs. Min.
Number of days in service	614 48	654 50	625 54	569 29	648 44	748 49	380 25	847 19	865 10
Total time open	12,465	12,139	12,484	12,019	11,402	14,940	5,610	5,566	5,784
Total number of vessels passed through	9,505	8,829	9,125	9,426	8,688	10,308	4,983	4,989	5,287
Total number of swings	55.6 +	53.63 +	53.13 +	53.4 +	9.4 +	65.80 +	25.8 +	24.9 +	25.60 +
Average number of vessels per day	38.1 +	35.4 +	36.4 +	37.10 +	34.5 +	45.60 +	18.8 +	18.4 +	19.6 +
Average number of swings per day	1.85 +	1.42 +	1.42 +	1.81 +	1.86 +	1.50 +	1.16 +	1.15 +	1.11 +
	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.	Min. Sec.
Average time consumed per vessel	2 41	2 41	2 27	2 4	2 28	2 81	1 20	1 5	1 18
Average time open per swing	4 89	4 89	4 55	4 22	5 20	4 63	5 89	5 32	5 58
Average time open per hour	6 6	6 6	5 72	4 96	5 90	6 8	3 4	2 65	2 97
Average time open per day	146 1	146 1	137 47	176 8	143 2	170 00	73 38	65 2	69 28

DEPARTMENT OF PUBLIC WORKS.

ARRIVALS OF VESSELS IN THE DISTRICT OF CHICAGO DURING THE YEAR 1891.

PORT OF	VESSELS IN THE COASTING TRADE.		FOREIGN VESSELS FROM FOREIGN PORTS		AMERICAN VESSELS FROM FOREIGN PORTS		TOTAL ARRIVALS.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago	8,806	4,496,306	84	51,015	64	23,205	8,956	4,569,526
South Chicago	847	870,188	.....	.....	.....	.....	847	870,188
Michigan City.....	421	85,188	.....	.....	.....	.....	421	85,188
Total.....	10,076	5,451,683	84	51,015	64	23,205	10,224	5,534,852

CLEARANCES OF VESSELS IN THE DISTRICT OF CHICAGO DURING THE YEAR 1891.

PORT OF	VESSELS IN THE COASTING TRADE.		FOREIGN VESSELS TO FOREIGN PORTS.		AMERICAN VESSELS TO FOREIGN PORTS.		TOTAL CLEARANCES.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago	8,859	4,554,941	89	53,819	196	90,060	9,144	4,698,820
South Chicago	784	724,864	.....	.....	.....	.....	784	724,864
Michigan City.....	416	88,516	.....	.....	.....	.....	416	88,516
Total.....	10,109	5,368,321	89	53,819	196	90,060	10,394	5,506,700

BRIDGES AND VIADUCT CONSTRUCTION.

W. M. Hughes, City Bridge Engineer, is in charge of this branch of work, and the following structures have been constructed during the year 1891:

BRIDGES AND VIADUCTS.

The West Taylor street viaduct, the contract for which was let to the American Bridge Works in 1890 for the sum of \$62,250.00 for the super-structure, and to James Kincade the sub-structure for the sum of \$20,777.98, has been completed, but is not yet open for traffic, owing to the fact that the Northern Pacific Railroad has not as yet carried out that portion of their ordinance of July 20, 1891, pages 554 et seq., which provides for said Northern Pacific Railroad building a viaduct and approaches on the east side of the river.

OGDEN BOULEVARD VIADUCT.

This structure is far advanced in construction, the masonry work and approaches being practically completed.

The contractors for the super-structure, the American Bridge Works, are well advanced with their portion of the work.

This structure is 120 feet wide over all, with a central boulevard roadway of 40 feet clear width, two sidewalks each 8 feet wide in the clear, and two side traffic ways each 26 feet clear width.

The division of cost of this structure is given in the accompanying table of viaducts.

MADISON STREET BRIDGE.

This bridge, the contract for which was let to Riter & Conley, of Pittsburg, was completed and opened for traffic October 16, 1891.

The city has a number of bridges which accommodate four lines of teams abreast. Such structures, previous to Madison street, were built with three trusses, while the latter has only two, the width of the bridge being reduced four feet in this manner.

Riter & Conley also furnished and erected a 45-foot girder span immediately west of the bridge and connected therewith.

The Fitz-Simons & Connell Company put in the sub-structure, and the Excelsior Iron Works furnished and erected the machinery for swinging the bridge.

MADISON STREET VIADUCT.

A three-truss skew viaduct was built over the tracks on West Water street and opened for traffic simultaneously with the bridge. The Penn Bridge Company, of Beaver Falls, Pa., did the work.

CALIFORNIA AVENUE CANAL BRIDGE.

The abutments of this bridge were built by Rogan Bros., of Joliet, Ill. No approaches have as yet been built, chiefly for the reason that the street is not open north of the canal. The Wrought Iron Bridge Company, of Canton, Ohio, has the contract for the super-structure and are now erecting the same, and will have it completed not later than April 1.

A tabulated statement, giving facts as regards the Chicago viaduct system, with super-structures, sub-structures, grades and costs, is appended.

TABLE OF VIADUCTS, GIVING LEN

	LOCATION.	CHARACTER SUPER-STRUCTURE.	FEET IN LENGTH.	FEET IN WIDTH.	CHARACTER SUPER-STRUCTURE.	CONTRACT SUB.
1	Madison st. and W. Water st.	Wrought and Cast Iron.	83	59	Masonry and Filling	
2	Adams st.—Canal st. to River Bridge	Wrought Iron.	306	38½	" "	
3	Halsted and 18th st., over C. B. & Q. R. R.	"	176½	60	" "	
4	Van Buren st., over P., Ft. W. & C. R. R.	"	65	62	" "	
5	Randolph st., over W. Water st.	Wrought and Cast Iron.	81	60	" "	
6	Lake st., over W. Water st.	Wrought Iron.	78½	60	" "	
7	Wells st., over N. Water st.	"	83	80	" "	
8	Clark st., over N. Water st.	"	83	80	" "	
9	State st.—River to N. Water st.	"	304	59	" "	
10	Eric st., over C. & N.-W. R'y.	Wood	467	34	" "	
11	Indiana st., over C. & N.-W. R'y	"	614	31½	" "	\$54,687
12	Canal and 16th st., over C. B. & Q. R. R.	Iron	300	64	" "	DeGolyer & F
13	Halsted and Kinzie sts., Car- roll ave. to Kinzie st.	"	473	62	" "	W. F. Hildred
14	12th and Beech sts., over P., Ft. W. & C. R. R.	"	58	58	" "	\$23,792
15	Blue Island ave. and Throop st.	"	122 101	65½ 55½	" "	Cox Brothers \$60,728
16	Milwaukee avenue and Des- plaines st.	"	680 472	59 65	" "	Jas. Kincade. \$70,361
17	West 18th st., over P., Ft. W. & C. R. R.	"	184	36	" "	Jas. Clowry. \$15,215
18	Sangamon st.	"	458	38	" "	M. C. & J. D.
19	West Harrison st.	"	498½	38	" "	J. J. Kearns.
3a	New South Halsted st.	"	176½	60	Old	City
20	Polk st., west, over C., B. & Q. R. R.	"	346	33	"	E. F. Gobel.
21	Center ave. Viaduct, over 16th st.	"	473	58	"	M. P. Garrity \$61,380
14a	New 12th st., at Beech st.	"	140	56	Repaired	M. P. Garrity
22	Halsted and Chicago ave.	"	Halsted 666 Chi. av. 238	49 60	"	John Duffy &
10a	New Erie st.	"	463.37	38	Old, Repaired	City
2a	New Adams st.	"	208.6	58	Old	City
23	West 12th st., west of River	"	363.6	58	"	Jos. Downey.
24	12th st. (Sec. 1), Clark st. and west	"	495.02	58	"	"
6a	New Lake st. (Chicago & Evanston R. R.)	"	106.2	60	Old, Repaired.	Fitz-Simons, Co
25	Extensions to Blue Island, Halsted, Center ave. and Canal (C. & G. W. R'y).	Steel	Same widths viaducts.	as old	"	C. & G. W. R
26	Jackson st. and Canal	"	359.3	58	Masonry and Filling	
27	18th st., east of River	"	463.87	58 & 38	" "	Jos. Downey.
11a	New Indiana st.	Iron	613.07	38	Old, Repaired	
28	Western ave. Viaduct	Steel	140	58	Masonry and Filling	M. C. & J. D.
29	Ashland ave. Viaduct	"	376.42	58	"	W. F. Hair..
30	Dearborn ave. Viaduct	"	625	40	"	M. C. & J. D.
31	Polk st., east C. & G. W. R'y.	"	407.5	40	"	C. & G. W. R
32	5th ave. Approach	"	658.81	60	"	Jos. Downey.
33	East 12th st., West or Second Section	Iron	374	58	Masonry Piers	
34	12th st., east of Clark	Steel	979.95	58	Masonry and Filling	Sackley & Pe
35	Thirty-fifth st.	"	405.53	58	"	Robt. Wilson
36	Washington st.	"	255	32	"	J. J. Duffy..
1a	Madison st.	"	98	60	"	Fitz-Simons, Co
37	West Taylor st.	"	900	58	"	Jas. Kincade
38	Ogden Boulevard	"	440.4	120	"	Jas. Kincade. \$84,500
39	61st st. Viaduct*					

* This viaduct is in the old town of Lake, and the city of Chicago has no plans or record concerning it.
REMARKS.—The total length of existing super-structure is 14,678.14 feet, or 2.78 miles. The total length of 23,240.58 feet, or 4.40 miles. The average cost per viaduct has been \$97,486.10.

IS, APPROACHES, GRADES, ETC.

CONTRACTOR, SUPER.	DATE.	CITY PAID.	RAILROADS PAID.	TOTALS.	APPROACHES.		
					LOCATION.	LENGTH IN FEET	GRADIENT.
Bridge Co.....	1866			\$12,675 00	West.....	221	1 Foot in 31.7
	1869	\$25,883 87	\$19,000 00	44,883 87	West.....	200	1 " 18.4
Bridge Co.....	1869		24,725 00	24,725 00	North.....	410	1 " 31.0
					South.....	265	1 " 21.0
Bridge Co.....	1880	7,715 56		7,715 56	East.....	184	1 " 26.7
	1870				West.....	176	1 " 23.0
Bridge Co.....	1871		12,206 00	12,206 00	West.....	208	1 " 70.0
	1872			13,505 00	West.....	176	1 " 21.5
	1872	12,570 65		12,570 65	North.....	230	1 " 27.5
	1872	24,277 43	14,730 00	39,007 43	North.....	278.5	1 " 37.5
	1872			29,840 00	North.....	270	1 " 36.0
oward.....	1871	23,056 25		23,056 25	West.....	350	1 " 26.0
nda.....	1869			78,697 00	West.....	228	1 " 24.0
\$23,010 00					North.....	550	1 " 42.5
oward.....	1873	30,000 00	96,401 29	126,401 29	South.....	530	1 " 39.5
\$37,200 00					North.....	524	1 " 38.5
James & Co.....	1874	65,477 46	65,357 81	130,835 27	South.....	472	1 " 39.0
\$51,428 00					East.....	378.5	1 " 30.0
Bridge Co.....	1873	7,549 62	25,668 25	33,217 87	West.....	408	1 " 32.0
					South.....	570	1 " 39.0
Bridge Co.....	1876	74,201 34	22,126 80	96,328 14	North.....	507	1 " 37.0
\$16,931 00					North.....	423	1 " 31.0
					South.....	433.5	1 " 30.0
Bridge Co. & Leighton. }	1876				N. W.....		1 " 50.0
\$70,010 15	1880	164,165 00	131,878 00	296,043 00	S. E.....		1 " 40.0
					Both ways.....		1 " 40.0
Bridge Co.....	1879	19,842 82	14,000 00	33,842 82	West.....	130	1 " 40.5
\$11,194 00					West.....	330	1 " 28.0
am & Keepers.....	1881	50,129 24	48,847 79	98,977 03	North.....	495	1 " 30.0
\$60,000 00					South.....	440	1 " 30.0
oolidge.....	1881	19,851 75	76,567 55	96,419 30	East.....	300	1 " 40.0
					West.....	360	1 " 40.0
Bridge Works.....	1881	17,685 73		17,685 73	Same as in 1869.		
Bridge Co.....	1882	Nothing...	115,009 49	115,009 49	West.....	498 28	1 " 38.03
					East.....	334 52	1 " 41.41
umberle.....	1884	105,063 74	47,666 38	152,730 12	South.....	722	1 " 40.0
\$77,737 33					North.....	722	1 " 40.0
oolidge.....	1884	7,554 20	24,306 84	31,861 04	West, same as in 1873.		
\$18,440 00					East, parallel to that of 1873.		
Bridge Co.....	1884	140,637 50	135,606 41	285,333 91	South.....	758	1 Foot in 40.0
					West.....	768	1 " 30.0
umberle.....	1885	45,000 00		45,000 00	East.....	550	1 " 30.0
\$37,433 00					Same as in 1869.		
Bridge Co.....	1885	33,462 40		33,462 40	Same as in 1869.		
\$27,993 00					Same as in 1869.		
eb & Co.....	1887	Nothing...	111,214 18	111,214 18	West.....	227	1 " 40.0
dge Co. and M. Lassig....	1887	72,778 60	56,343 08	129,121 68	North.....	656	1 " 40.0
					South.....	656	1 " 40.0
Bridge Co.....	1887		39,007 84	39,007 84	West.....	230.4	1 " 23.0
					East.....	75.53	1 " 37.0
eb & Co.....	1886		85,987 57	85,987 57	Same as before extended, but shorter.		
eb & Co.....	1887	212,200 00	74,600 00	286,800 00	West.....	524.69	1 Foot in 35.0
					Canal N.....	355	1 " 50.8
					S.....	306.66	1 " 30.15
Bridge Co.....	1888	Nothing...	114,446 00	114,446 00	East.....	320	1 " 26.4
Bridge Co.....	1888	54,491 39		54,491 39	West.....	228	1 " 24.0
Forge & Bolt Co.....	1889		80,712 88	80,712 88	North.....	603.1	1 " 27.65
					South.....	563	1 " 28.0
eb & Co.....	1889	28,217 99	65,399 36	94,317 35	North.....	542	1 " 26.26
\$44,684 00					South.....	325	1 " 26.5
	1889	22,858 74	40,000 00	62,858 74	North.....	178	1 " 20.0
					South.....	160.2	1 " 20.0
	1888	Nothing...	All.....	Unknown..	East.....		1 " 18.7
Forge & Bolt Co.....	1888		60,000 00	60,000 00	North.....	200	1 " 40.0
	1888	20,000 00	Balance....	Unknown..	Extension of old bridge, on same viaduct to level.		
onley.....	1889	Nothing...	209,736 00	209,736 00	East.....	187.7	1 Foot in 22.28
eb & Co.....	1889	"	159,781 06	159,781 06	West.....	637	1 " 27.81
					East.....	773	1 " 33.3
dge Co.....	1890	20,237 63	6,014 37	26,252 00	West.....	143	1 " 21.0
					East.....	108	1 " 21.0
dge Co.....	1891	11,200 00			Same as in 1886.		
Bridge Works.....	1891	Nothing...	83,027 98	83,027 98	West.....	305	1 " 23.0
\$62,250 00					S. W.....	450	1 " 25.0
Bridge Works.....	1892	93,977 86	108,750 14	202,728 00	N. E.....	450	1 " 25.0
\$118,220 00							
		\$1,419,086 77	\$2,169,208 07	\$3,703,711 84			

The total divisible amounts of cost of construction, the railroads have paid 60 per cent., and the city of Chicago 394 per cent. The city has paid the difference between the divisible amounts and the sum total, then the city has paid 41 per cent., and the railroads 59 per cent. of the total cost of construction.

BRIDGE AND VIADUCT REPAIRS.

J. E. Roemheld, Engineer in charge of Bridge Repairs, has this branch of work under his supervision, and the bridges and viaducts of the city have undergone certain repairs as the limited appropriation allowed would admit.

The total amount expended during the year was \$123,109.18.

MAIN DRAINAGE WORKS.

CANAL PUMP WORKS.

The Canal Pump Works, situated at the intersection of the South branch of the Chicago river and the Illinois and Michigan Canal, has been in operation almost the entire year.

The average amount of water pumped per minute during the year was 32,000 cubic feet.

The cost of operating and maintaining, including repairs, was \$70,000.00.

Annexed is a table showing the monthly operations of the plant.

W. J. Culliton is the Engineer in charge of the works.

FULLERTON AVENUE PUMP WORKS.

The Fullerton avenue Pump Works, situated on the North branch of the Chicago river at Fullerton avenue, receives its supply through a 12-foot tunnel from the lake and is pumped into the North branch of the Chicago river, thus purifying to a certain extent its water.

The average amount of water pumped per day during the year was fifteen million cubic feet.

A. D. Howell is the Engineer in charge of the works.

LOW LEVEL SEWERAGE DISTRICT.

The Woodlawn Pumping Works (Sixty-third street and Illinois Central Railroad) lift the drainage and sewerage of the Woodlawn district into the city sewer system. Four hundred and twenty million gallons has been pumped during the year, which makes an average of about one and one-half million gallons per day.

Mr. T. R. Annable is the Engineer in charge.

WATER PIPE EXTENSION AND METER SERVICE.

Mr. John A. Moody is Superintendent of the first-named branch and P. S. Storm is Superintendent of Meters.

The 36-inch pipe ordered for Sulzer avenue, in 1890, has been removed and laid in connection with the Fourteenth-street Pumping Works, passing under the river at Douglas avenue (Thirty-fifth street) and extending to Ashland avenue.

The 16-inch pipe on Sixty-eighth street and Sixty-seventh street, from the pumping works to Woodlawn avenue, and the 14-inch pipe from Woodlawn avenue to State street, abandoned in 1890, has been taken up, and that part of the 14-inch fit for use was relaid on Prairie avenue from Forty-third street to Fifty-first street.

Property owners have advanced the sum of \$162,406.31 to cover the cost of laying 154,107 feet of pipe, varying in diameter from six to twelve inches. This money is to be refunded when the required revenue is derived from the pipe.

The city shop has been able to supply the hydrants and stop-valves for the year. We find those of our own make more satisfactory and durable than any we have ever bought.

Water mains have been lowered below the frost line in the following streets :

- Addison avenue, between Clark street and Sheffield avenue.
- Addison avenue, between Southport avenue and Herndon street.
- Bittersweet place, east of Halsted street.
- Carpenter street, north of alley north of Fifty-fifth street.
- Dickey street, between Seventieth and Seventy-first streets.
- Fifty-fifth street, between Jefferson avenue and Lake avenue.
- Fifty-eighth street, between Michigan avenue and Wabash avenue.
- Forty-third street, between Cottage Grove avenue and Drexel boulevard.
- Forty-sixth street, between St. Lawrence avenue and Champlain avenue.
- Stewart avenue, between Seventieth and Seventy-first streets.
- Stewart avenue, between Seventy-eighth and Seventy-ninth streets.
- St. Lawrence avenue, between Forty-sixth and Forty-seventh streets.
- Wabash avenue, between Fifty-seventh and Fifty-ninth streets.
- Wabash avenue, between Sixtieth and Sixty-third streets.
- Michigan avenue, between Fifty-first and Fifty-eighth streets.

The above mentioned pipe was laid, by contract, before annexation.

The following tabulated statement shows in detail the work done on water pipe extension during the year :

NORTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Blackhawk	Hooker	Cherry	390	8
Burton place.....	160 ft. W. of State.....	Westward	140	6
Chestnut place.....	Delaware place.....	Walton place.....	305	6
Clyde	Maude avenue.....	Northward	258	6
Garfield avenue	Lewis	Eastward.....	117	6
Hickory	Division.....	Northward.....	485	8
Hooker.....	Rees	Blackhawk.....	983	8
Huron	St. Clair	Eastward.....	648	6
Indiana	782 ft. E. of St. Clair	Eastward.....	600	6
Leddy.....	12 ft. S. of S. line Fullerton avenue.	12 ft. N. of N. line Fullerton avenue.	124	6
Oak.....	Larrabee.....	Westward.....	150	8
Ohio	Market	Westward.....	920	6
Poe	22 ft. S. E. of N. line Clyde.	Connect.....	40	4
Rees	Hickory	Hooker.....	350	8
Total			5,435	
Add branch pipe for hydrants.....			108	4
Add branch pipe for hydrants.....			168	6
Total feet laid in North Division			5,711	

SOUTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Buena Vista place	25 ft. E. of Emerald avenue	Eastward	224	4
Calhoun place	Fifth avenue	La Salle	360	8
Calumet avenue	Thirty-seventh	Southward	112	6
Calumet avenue	Thirty-eighth	Southward	550	6
Dearborn	Sixteenth	Fourteenth	1,460	36
Fisk	800 ft. S. of Springer	Southward	290	6
Forest avenue	Thirty-ninth	Southward	20	6
Fourteenth	Indiana avenue	Westward	191	8
Fourteenth	123 ft. E. of Michigan avenue	Eastward	95	8
Fourteenth	28 ft. E. of Michigan avenue	Eastward	165	36
Fourteenth	26 ft. E. of Dearborn	Eastward	124	36
Fourteenth	84 ft. E. of Dearborn	Eastward	30	48
Gage	Thirty-eighth	156 ft. south	156	6
Indiana avenue	93 ft. S. of Fourteenth	Northward	214	36
James avenue	Lincoln	Eastward	325	6
Joseph	Kedzie avenue	Spaulding avenue	630	6
La Salle	Twenty-sixth	Twenty-seventh	466	36
La Salle	Twenty-seventh	Southward	820	36
La Salle	Twenty-ninth	Thirty-third	2,752	36
Lincoln	Thirty-fifth	Thirty-sixth	625	8
Lincoln	Thirty-first	Southward	316	6
Lowe avenue	Thirty-fifth	Northward	175	8
Lowe avenue	Thirty-third	Thirty-fifth	1,317	36
Lowe avenue	Crossing	Thirty-ninth	32	16
Musprat	275 ft. S. of Springer	Southward	310	6
Portland	Crossing	Thirty-second	36	6
Smith	Pearson	175 ft. E. of Sacramento avenue	665	6
Smith	Crossing	Sacramento avenue	25	8
Third avenue	Fourteenth	Northward	16	24
Thirtieth	Halsted	Emerald avenue	265	6
Thirtieth	Wallace	Canal	932	6
Thirty-eighth	Halsted	Emerald avenue	265	6
Thirty-eighth	Emerald avenue	Union avenue	260	6
Thirty-eighth	Union avenue	Wallace	592	6
Thirty-fifth court	80 ft. W. of Gage	Westward	120	6
Thirty-first	Vermont avenue	Eastward	685	6
Thirty-fourth court	175 ft. E. of Robey	Eastward	175	8
Thirty-fifth	Charlton	300 ft. E. of Iron	1,745	36
Thirty-fifth	Lowe avenue	212 ft. W. of Ullman	3,876	36
Thirty-ninth	Lowe avenue	Emerald avenue	665	16
Thirty-ninth	Forrest avenue	Prairie avenue	224	16
Thirty-ninth	Crossing	Forrest avenue	27	12
Thirty-seventh court	Laurel	Eastward	317	6
Thirty-seventh	Gage	Eastward	153	6
Thirty-third	LaSalle	Lowe avenue	3,130	36
Twenty-eighth	Emerald avenue	Dashiel	266	6
Twenty-eighth	Halsted	Emerald avenue	266	6
Twenty-eighth	Dashiel	Wallace	600	6
Vermont	Thirty-fifth	Thirty-sixth	625	6
Wall	275 ft. S. of Springer	Southward	328	6
Total			28,017	
Add branch pipe for hydrants			144	4
Add branch pipe for hydrants			288	6
Total feet laid in South Division			28,449	

WEST DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley S. of George.	Carpenter.	Eastward.	267	4
Alley ct. Madison & Monroe	Loomis.	Eastward.	237	6
Adams.	Kedzie avenue.	Westward.	914	6
Adams.	Crossing.	Central Park avenue.	30	6
Adams.	Homan avenue.	Central Park avenue.	1,273	6
Albany avenue.	Twenty-third.	Northward.	100	6
Albany avenue.	Ogden avenue.	Douglas Park boulevard.	1,311	6
Albany avenue.	Crossing.	Twenty-sixth.	60	8
Albany avenue.	Twenty-second.	Northward.	460	6
Alice court.	Leavitt.	Milwaukee avenue.	907	6
Augusta.	Hoyne avenue.	Leavitt.	666	8
Augusta.	Crossing.	Richmond.	84	8
Augusta.	Crossing.	Kedzie avenue.	100	8
Augusta.	Hamlin avenue.	90 ft. W. of Avers avenue.	450	8
Avers avenue.	Augusta.	210 ft. S. of Division.	1,075	6
Bremer.	Oakley avenue.	12 ft. W. of Leavitt.	630	6
Burnett.	Leavitt.	Hoyne avenue.	666	6
California avenue.	Crossing.	Chicago avenue.	68	6
Campbell avenue.	Ogden avenue.	Northward.	300	6
Campbell avenue.	Twelfth.	Southward.	535	6
Carroll avenue.	Sacramento avenue.	Westward.	170	6
Central Park avenue.	Twenty-fifth.	Twenty-sixth.	666	6
Central Park avenue.	Crossing.	North avenue.	96	8
Central Park avenue.	Colorado avenue.	Harrison.	776	8
Central Park avenue.	Madison.	Colorado avenue.	1,860	8
Chicago avenue.	California avenue.	Westward.	179	6
Clarinda.	Wood.	Samuel.	260	6
Clarinda.	12 ft. W. of Paulina.	Samuel.	256	6
Clarinda.	Rumsey.	Paulina.	254	6
Clarinda.	24 ft. W. of Ashland avenue.	Rumsey.	224	6
Clifton Park avenue.	Crossing.	Twenty-sixth.	66	6
Colorado avenue.	Central Park avenue.	Westward.	1,290	8
Colorado avenue.	Crossing.	Forty-eighth.	42	6
Colorado avenue.	Garfield boulevard.	70 ft. W. of Hamlin avenue.	183	8
Congress.	Central Park avenue.	Eastward.	55	6
Congress.	Crossing.	Francisco.	92	6
Congress.	Forty-fourth.	Forty-sixth.	1,104	6
Congress.	Fortieth.	Westward.	1,941	6
Cornelia.	Western avenue.	Seymour.	625	6
Cortez.	Crossing.	Richmond.	68	6
Delamater place.	Crossing.	North avenue.	48	6
Della.	Forty-seventh.	Forty-eighth.	592	6
Della.	Crossing.	Forty-eighth.	27	6
Douglas Park blvd.	Crossing N. S.	Sawyer avenue.	76	6
Douglas Park blvd.	Crossing S. S.	Sawyer avenue.	76	6
Douglas Park blvd.	Crossing.	Twelfth.	110	6
Drake.	180 ft. S. of Ohio.	Southward.	332	6
Eighteenth.	256 ft. E. of Trumbull avenue.	Eastward.	338	8
Emerald avenue.	Crossing.	Thirty-ninth.	39	16
Evergreen avenue.	Crossing.	Elston avenue.	36	6
Fairfield avenue.	Iowa.	Augusta.	621	6
Fifteenth.	Crossing.	Kedzie avenue.	76	6
Fourteenth.	Crossing.	118 ft. E. of Michigan avenue.	40	8
Fourteenth.	214 ft. W. of Wood.	Lincoln.	424	6
Fourteenth.	Crossing.	Sawyer avenue.	76	6

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Forty-eighth (West).	Harrison	Colorado avenue	1,883	8
Forty-fifth (West)...	Congress	Harrison	330	8
Forty-fifth (West)...	Crossing	Madison	125	8
Forty-first (West)...	Crossing	Madison	122	6
Forty-first (West)...	Jackson	Congress	1,004	6
Forty-fourth (West).	Owasco	Congress	662	8
Forty-seventh (West)	Crossing	Madison	125	8
Forty-sixth (West)...	Crossing	Madison	125	6
Forty-third (West)...	Madison	Owasco	1,600	6
Forty-third (West)...	Crossing	Madison	81	6
Forty-third (West)...	63 ft. N. of Park avenue	Randolph	416	6
Fourteenth	Crossing	Sawyer	76	6
Francisco	Crossing	Twenty-sixth	76	6
Fulton	St. Louis avenue	Westward	164	8
Glenview avenue	Homan avenue	Eastward	270	8
Grand avenue	40 ft. W. of Avers avenue	Fortieth	1,100	12
Grand avenue	Hamlin avenue	Lawndale avenue	535	8
Grand avenue	Washtenaw avenue	Christiana	5,050	8
Grand avenue	Homan avenue	Monticello	1,875	8
Greeley place	11 ft. N. of Alley S. of George	Southward	108	4
Hamlin avenue	Ogden avenue	Northward	1,100	6
Hamlin avenue	Twenty-fourth	Southward	320	6
Harrison	74 ft. E. of Forty-fourth place	Forty-eighth	2,484	8
Harrison	Crossing	Central Park avenue	90	8
Harvard	10 ft. W. of Sacramento avenue	Westward	231	8
Harvard	Fairfield avenue	California avenue	270	8
Harvard	Crossing	Sacramento avenue	76	8
Harvard	Campbell avenue	Westward	1,160	8
Henry	Kedzie avenue	Eastward	46	6
Hinman	Albany avenue	Eastward	666	6
Homan avenue	12 ft. S. of Glenview	Southward	254	8
Homan avenue	Grand avenue	Glenview	1,110	8
Homan avenue	Crossing	North avenue	96	8
Homan avenue	Walnut	Fullerton avenue	360	8
Homan avenue	Crossing	Twenty-sixth	46	8
Homan avenue	Eighteenth	300 ft. N. of Sixteenth	950	8
Hoyne avenue	Fullerton avenue	Southward	63	6
Hoyne avenue	Eighteenth	Van Horn	266	8
Hoyne avenue	Van Horn	Nineteenth	270	8
Hoyne avenue	Nineteenth	Twentieth	266	8
Hoyne avenue	Twenty-first	Hinman	266	6
Hoyne avenue	Hinman	Twenty-second	270	6
Hoyne avenue	Twentieth	Twenty-first	270	8
Huron	Crossing	Kedzie avenue	80	6
Huron	Troy	Eastward	200	6
Ida	Forty-eighth	312 ft. E. of Forty-seventh	1,005	6
Iowa	Leavitt	Hoyne avenue	666	6
Iowa	Western avenue	Seymour	625	6
Jackson	Forty-third (West)	Fortieth (West)	1,974	8
Jane	12 ft. W. of Rumsey	8 ft. E. of Paulina	255	6
Jane	Samuel	17 ft. E. of Wood	250	6
Jane	Leavitt	Eastward	41	6
Jane	Paulina	Samuel	260	6
Kedzie avenue	Ohio	70 ft. N. of Augusta	2,750	12
Kedzie avenue	Crossing	North avenue	96	12

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Kedzie avenue	Thirty-eighth	Joseph	335	8
Kedzie avenue	Twenty-second	Northward	285	8
Kedzie avenue	Ogden avenue	Southward	225	8
Kedzie avenue	Twelfth	110 ft. S. of Ogden avenue	3,163	12
Kedzie avenue	240 ft. N. of Nineteenth	Northward	346	8
Kedzie avenue	90 ft. N. of Twenty-fourth	Northward	132	12
Kuehl place	Elston avenue	Lister	315	6
Laughton	California avenue	Eastward	220	6
Lawndale avenue	Crossing	North avenue	124	6
Lawndale avenue	Crossing	Colorado avenue	33	6
Leavitt	Division	Rice	2,250	6
Leavitt	Wabansia avenue	Southward	175	8
Le Moyne	Maplewood avenue	Eastward	106	6
Leipzig	Hamburg	Ems	450	4
Lexington avenue	Crossing	Sacramento avenue	46	6
Lexington avenue	230 ft. W. of Francisco avenue	Westward	81	6
Linwood avenue	Crossing	Richmond	96	6
Lunn court	Crossing	Campbell avenue	50	6
Madison	Forty-third (West)	Westward	1,618	8
Madison	Fortieth (West)	Westward	1,900	8
Madison	Forty-third (West)	Forty-eighth	3,610	8
Mailler	Forty-eighth (West)	312 E. of Forty-seventh (West)	1,005	6
Mailler	Crossing	Forty-eighth (West)	27	6
Maplewood avenue	Crossing	Fifteenth	24	6
Marlin	Crossing	California avenue	38	6
Millard avenue	Crossing	Colorado avenue	33	6
Millard avenue	Twelfth	Southward	360	6
Millard avenue	Twenty-sixth	Twenty-seventh	682	6
Monroe	Crossing	Spaulding avenue	86	6
Monroe	Homan avenue	Central Park avenue	1,288	6
Monroe	Central Park avenue	Eastward	30	6
Monticello avenue	Division	Emery	615	8
Monticello avenue	Crossing	North avenue	76	6
Nineteenth	Kedzie avenue	Eastward	1,405	6
Oakley avenue	Crossing	Fullerton avenue	96	6
Oakley avenue	152 ft. N. of Ems	Northward	100	6
Oakley avenue	26 ft. N. of Chicago avenue	Southward	700	6
Oakley avenue	Ohio	Northward	294	6
Ogden avenue	Crossing	Sawyer avenue	36	6
Ogden avenue	Crossing	Kedzie avenue	76	6
Ogden avenue	Millard avenue	Bonney avenue	720	8
Ogden avenue	Kedzie avenue	Sawyer avenue	332	6
Ogden avenue	Hamlin avenue	Fortieth	1,410	8
Ohio	Crossing	St. Louis avenue	48	12
Ohio	Crossing	Kedzie avenue	42	12
Owasco	Fortieth (West)	Forty-second (West)	1,272	6
Owasco	Forty-third	12 ft. W. of Forty-fifth	1,370	6
Polk	Crossing	Sacramento avenue	76	6
Ridgeway avenue	Ohio	Huron	667	6
Rockwell	Crossing	Chicago avenue	130	12
Rosebud	Crossing	Wabansia avenue	53	6
Rosebud	Wabansia avenue	Bloomington	650	6
Sacramento avenue	Crossing	Twenty-sixth	46	6
Sacramento avenue	Twenty-seventh	Southward	916	6
Sacramento avenue	Lexington avenue	Southward	1,316	8

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Sacramento avenue.	Harrison	25 ft. S. of Flournoy	280	8
Sawyer avenue	Twelfth	Ogden avenue	3,150	6
Sawyer avenue	Crossing	Twenty-sixth	66	6
Seymour	Crossing	Chicago avenue	100	6
Sixteenth	Crossing	Sawyer avenue	75	8
Sixteenth	Crossing	Kedzie avenue	76	8
Spaulding avenue	Crossing	Twenty-sixth	66	6
Spaulding avenue	C. B. & Q. tracks	Northward	50	6
Spaulding avenue	Crossing	Adams	86	6
Stanley terrace	40 ft. N. of Jackson	2 ft. S. of N. line of Jackson	42	6
St. Hedwig	250 ft. N. of Kosciusko	Northward	118	6
St. Hedwig	363 ft. N. of Kosciusko	Northward	104	6
St. Louis avenue	Crossing	Twenty-sixth	66	8
St. Louis avenue	Crossing	Adams	84	8
St. Louis avenue	Crossing	North avenue	96	6
St. Louis avenue	Crossing	Monroe	86	6
St. Paul avenue	23 ft. E. of Rosebud	12 ft. E. of Western avenue	860	6
String	Crossing	Twenty-first	100	4
Superior	Washtenaw avenue	Westward	335	6
Superior	50 ft. E. of Western avenue	Eastward	615	6
Superior	Forty-sixth	Forty-seventh	576	6
Taylor	Crossing	Fairfield avenue	75	6
Thirteenth	Crossing	Sawyer avenue	76	6
Thirty-fifth	Crossing	Leavitt	30	6
Thirty-ninth	Crossing	Twelfth	110	6
Thomas	20 ft. E. of Richmond	Westward	108	6
Thomas	Leavitt	Hoyne avenue	666	6
Thompson avenue	Crossing	Rockwell	167	6
Thompson avenue	30 ft. E. of Washtenaw avenue	Westward	127	6
Troy avenue	Twelfth	Southward	1,067	6
Twelfth	Garfield boulevard	Westward	1,510	12
Twenty-eighth	Crossing	Millard avenue	47	8
Twenty-fifth	Crossing	Bonney avenue	44	6
Twenty-fifth	Crossing	Central Park avenue	70	6
Twenty-first	12 ft. W. of Western avenue	Westward	500	6
Twenty-fourth	Crossing	Bonney avenue	28	6
Twenty-fourth	Crossing	Central Park avenue	70	6
Twenty-ninth	Lawndale avenue	Westward	27	6
Twenty-second	Hamlin avenue	Westward	665	6
Twenty-second	Springfield avenue	Westward	110	6
Twenty-seventh	Crossing	Millard avenue	28	6
Twenty-seventh	Crossing	Lawndale avenue	80	6
Twenty-seventh	Whipple	Sacramento avenue	340	6
Twenty-sixth	Crossing	Lawndale avenue	48	6
Twenty-sixth	Millard avenue	Hamlin avenue	950	6
Twenty-sixth	Bonney avenue	Hamlin avenue	300	6
Twenty-sixth	Sacramento avenue	Whipple	335	6
Twenty-sixth	Whipple	Central Park avenue	3,626	6
Twenty-sixth	Crossing	Millard avenue	84	6
Van Buren	Fortieth (West)	12 ft. W. of Forty-second (West)	1,346	6
Wabansia avenue	Crossing	Maplewood avenue	96	8
Wabansia avenue	Crossing	Rockwell	60	3
Wabansia avenue	12 ft. E. of Western avenue	Milwaukee avenue	1,637	6
Wabansia avenue	Crossing	Seymour	120	8
Wabansia avenue	40 ft. W. of Sheridan	Hancock	1,257	8

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Wabansia avenue...	Crossing	Davey avenue	90	8
Walnut... ..	Homan avenue.....	Westward.....	316	4
Walnut.....	Central Park avenue.....	Eastward.....	340	6
Washtenaw avenue	12 ft. N. of Iowa.....	Northward	600	8
Washtenaw avenue	Harvard	Twelfth.....	1,288	8
Washtenaw avenue	Crossing	Twenty-sixth	100	8
Webster avenue....	Lester.....	Westward.....	707	6
Whipple.....	Twenty-third	Northward	100	6
Total			115,863	
Add branch pipe for hydrants.....			480	4
Add branch pipe for hydrants.....			8,108	6
Total feet laid in West Division			119,451	

HYDE PARK DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Alley E. of Drexel blvd.	Forty-fourth.	Forty-fifth	632	6
Alley W. of Grand blvd.	342 ft. S. of Thirty-ninth.	Southward.	240	6
Alley W. of Grand blvd.	Forty-first	Fortieth.	589	6
Adams avenue	Eighty-first.	Eighty-second.	650	6
Adams avenue	Ninety-second.	Ninety-first.	690	6
Adams avenue	Seventy-fifth	Seventy-sixth.	654	6
Adams avenue	Eighty-third	Northward	690	6
Askum avenue	Eighty-seventh	So. Chicago avenue.	1,216	6
Avenue J.	23 ft. N. of Ninety-fifth	Hundred and sixth.	7,360	6
Avenue L	Hundred and third.	Hundred and fourth.	630	6
Bissell avenue.	Seventy-fourth place	Seventy-fourth.	369	6
Bond avenue.	Seventy-ninth	Eightieth.	643	6
Boulevard place	Crossing	St. Lawrence avenue.	48	6
Brackett	State	Indiana avenue.	1,260	6
Brooks avenue	Seventy-third	Seventy-fifth.	1,326	6
Brooks avenue	Seventy-fifth	Seventy-sixth.	715	6
Calumet avenue	Fifty-ninth	Southward	390	6
Calumet avenue.	25 ft. N. of Forty-fourth.	Forty-fifth.	917	6
Carlin avenue.	Eighty-third.	Eighty-second.	618	6
Champlain avenue.	Seventy-second	Seventy-first.	666	6
Champlain avenue.	Forty-ninth.	Southward	426	6
Cheltenham place	Crossing	Bond avenue	66	6
Coles avenue.	Seventy-fifth	Seventy-seventh	1,644	6
Coles avenue.	Seventy-seventh	Cheltenham place.	1,673	6
Curtis avenue	Hundred and seventh.	Northward	420	6
Curtis avenue	65 ft. S. of Hundred and eighth place	Northward	865	6
Cregier avenue.	Seventy-second.	Seventy-third.	664	6
Dobson avenue.	Seventy-sixth	Seventy-eighth	1,274	8
Drexel avenue	97 ft. S. of Fifty-eighth.	Fifty-ninth	500	6
Duncan avenue	Seventy-ninth	Eighty-second.	1,980	6
Duncan avenue	Seventy-ninth	12 ft. S. of Railroad avenue.	1,466	6
East End avenue.	Fifty-first	Northward	120	6
Edwards avenue.	Seventy-ninth	Railroad avenue	455	6
Eighty-eighth.	Mackinaw avenue.	Buffalo avenue.	380	6
Eighty-eighth.	Superior avenue	Mackinaw avenue.	745	6
Eighty-seventh.	Escanaba avenue	Askum avenue.	1,880	6
Eighty-third place.	Crossing	Commercial avenue.	54	6
Eighty-third	Edwards.	Carlin avenue.	1,373	6
Eighty-third	Adams avenue.	Madison avenue.	314	8
Eighty-third	Washington avenue.	23 ft. E. of Jefferson avenue.	312	8
Ellis avenue	Sixty-third	Sixtieth.	1,920	6
Ellis avenue	Seventy-first	So. Chicago avenue	1,275	6
Erie avenue	Ninety-seventh	Northward.	425	6
Escanaba avenue.	Eighty-seventh	Eighty-fourth.	2,074	6
Evans avenue.	Sixty-fourth.	Southward.	168	6
Evans avenue.	Sixty-seventh.	Northward	1,250	6
Evans avenue.	138 ft. S. of Sixty-fourth.	Southward	122	6
Evans avenue.	50 ft. S. of Sixty-fifth	Northward	166	6
Evans avenue.	Seventy-third	Seventy-fifth.	1,333	6
Ewing avenue.	Ninety-third	500 ft. N. of Seventy-fourth.	1,346	6
Ewing avenue.	Hundred and sixth.	Hundred and seventh.	370	6
Exchange avenue	South Chicago avenue.	Northward	212	8
Exchange avenue.	Crossing	Ninety-fifth.	64	6
Fiftieth place	Crossing	Forrestville avenue.	72	6
Fiftieth place	Crossing	St. Lawrence avenue.	72	6

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fiftieth	Cottage Grove avenue	Eastward	340	6
Fiftieth	Crossing	St. Lawrence avenue	72	6
Fiftieth	Crossing	Forrestville avenue	72	6
Fiftieth	Crossing	Wabash avenue	102	6
Fifty-eighth	Crossing	Drexel avenue	94	6
Fifty-eighth	Madison avenue	Washington avenue	374	6
Fifty-eighth	Crossing	Michigan avenue	96	6
Fifty-eighth	Crossing	Wabash avenue	96	6
Fifty-fifth	Drexel avenue	Cottage Grove avenue	706	6
Fifty-fifth	Woodlawn avenue	Wharton avenue	1,653	6
Fifty-fourth place	Lake avenue	Madison avenue	1,050	6
Fifty-fourth	Crossing	Wabash avenue	67	6
Fifty-fourth	Crossing	Michigan avenue	104	6
Fifty-ninth	Prairie avenue	Calumet avenue	440	6
Fifty-ninth	Calumet avenue	South Park avenue	400	6
Fifty-ninth	Indiana avenue	State	1,320	6
Fifty-second	Crossing	Michigan avenue	108	6
Fifty-seventh	5 ft. E. of Cottage Grove avenue	Woodlawn avenue	2,625	6
Fifty-seventh	Crossing	Michigan avenue	96	6
Fifty-seventh	Crossing	Wabash avenue	96	6
Fifty-sixth	Crossing	Jackson avenue	48	6
Fifty-sixth	Crossing	Drexel avenue	24	6
Fifty-sixth	Crossing	Wabash avenue	96	6
Fifty-sixth	Crossing	Michigan avenue	96	6
Fifty-third	Crossing	Wabash avenue	102	6
Fifty-third	Crossing	Michigan avenue	112	6
Fifty-third	Crossing	Jackson avenue	42	6
Forrestville avenue	Crossing	Forty-fourth	24	6
Forrestville avenue	Forty-eighth	Fifty-first	1,951	6
Forty-eighth	Crossing	Wabash avenue	96	6
Forty-eighth	Crossing	St. Lawrence avenue	72	6
Forty-fifth	State	Michigan avenue	820	6
Forty-fifth	25 ft. E. of Michigan avenue	Grand boulevard	1,700	6
Forty-fourth	Langley avenue	Champlain avenue	340	6
Forty-fourth	Cottage Grove avenue	Evans avenue	319	6
Forty-fourth	Evans avenue	Langley avenue	153	6
Forty-fourth	Champlain avenue	Vincennes avenue	1,000	6
Forty-fourth	Vincennes avenue	Grand avenue	683	6
Forty-fourth	Crossing	Indiana avenue	96	6
Forty-fourth	Crossing	Wabash avenue	96	6
Forty-ninth	Crossing	St. Lawrence avenue	72	6
Forty-ninth	Crossing	Forrestville avenue	72	6
Forty-ninth	Crossing	Wabash avenue	96	6
Forty-second	Calumet avenue	Alley W. of Grand boulevard	168	6
Forty-second	Crossing	Wabash avenue	36	6
Forty-second	Lake avenue	Illinois Central Railroad tracks	543	6
Forty-second	Crossing	Indiana avenue	96	6
Forty-sixth	Cottage Grove avenue	Evans avenue	280	6
Forty-sixth	Vincennes avenue	Grand boulevard	671	6
Forty-sixth	28 ft. E. of Michigan avenue	Grand boulevard	1,726	6
Forty-sixth	Evans avenue	Champlain avenue	446	6
Forty-sixth	Cottage Grove avenue	Drexel avenue	541	6
Forty-sixth	State	Michigan avenue	810	6
Forty-sixth	Langley avenue	Champlain avenue	233	6
Front	Crossing	Hundred and fifteenth	43	8

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Grand boulevard...	Forty-fourth.....	Northward.....	314	6
Greenwood avenue...	203 ft. N. of Sixty-third..	Sixtieth.....	1,710	6
Greenwood avenue...	Crossing.....	Fifty-fifth.....	44	6
Houston avenue...	6 ft. S. of Ninety-eighth..	Ninety-sixth.....	1,300	6
Howard avenue...	Hundred and sixteenth....	Hundred and eighteenth..	980	6
Indiana boulevard...	Ewing avenue.....	439 ft. S. of E. line of Ewing avenue.	470	6
Ione place.....	Vincennes avenue.....	Grand boulevard.....	600	6
Iron.....	Michigan avenue.....	State.....	585	6
Jackson avenue...	Fifty-third.....	Fifty-fourth.....	657	6
Jefferson avenue...	Ninety-first.....	Ninety-second.....	591	6
Jefferson avenue...	Eighty-first.....	Eighty-second.....	650	6
Jefferson avenue...	Eighty-third.....	Northward.....	685	6
Kimbark avenue...	Forty-ninth.....	Forty-eighth.....	658	6
Kimbark avenue...	Crossing.....	Forty-eighth.....	36	6
Kinney avenue...	Seventy-second.....	10 ft. N. of Seventy-first..	650	6
Langley avenue...	Sixty-ninth.....	Sixty-seventh.....	1,269	6
Langley avenue...	Sixty-fifth.....	12 ft. S. of Sixty-seventh..	1,422	6
Luella avenue...	Seventy-first.....	Seventy-third.....	975	6
Mackinaw avenue...	Eighty-sixth.....	298 ft. N. of Eighty-third..	2,311	6
Madison avenue...	Eighty-third.....	Northward.....	690	6
Madison avenue...	Eighty-first.....	Eighty-second.....	650	6
Manistee avenue...	4 ft. N. of Ninety-third..	Ninety second.....	600	6
Manistee avenue...	South Chicago avenue....	Ninetieth.....	1,535	6
Manistee avenue...	Ninety-third.....	Ninety-fourth.....	600	6
Marquette avenue...	Ninety-second.....	4 ft. N. of Ninety-third..	602	6
Marquette avenue...	Ninety-third.....	Ninety-fourth.....	600	6
Marquette avenue...	Eighty-eighth.....	Eighty-seventh.....	648	6
McChesney.....	Sixty-fifth.....	Southward.....	620	6
Michigan avenue...	Brackett avenue.....	Northward.....	136	6
Michigan avenue...	Sixty-eighth.....	Sixty-seventh.....	600	6
Michigan avenue...	Crossing.....	Hundred and fifteenth....	43	6
Michigan avenue...	Brackett avenue.....	Southward.....	30	6
Muskegon avenue...	Ninetieth.....	Eighty-eighth.....	1,270	6
Ninety-eighth.....	Sixth avenue.....	23 ft. E. of Seventh avenue.	350	8
Ninety-fifth.....	Commercial avenue.....	Manistee avenue.....	1,500	8
Ninety-first.....	Adams avenue.....	Westward.....	225	6
Ninety-second.....	Jefferson avenue.....	Adams avenue.....	292	6
Ninety-seventh.....	Erie avenue.....	Westward.....	106	6
Ninety-seventh.....	Commercial avenue.....	250 ft. E. of Houston avenue.	650	6
Ninety-third.....	Greenwood avenue.....	Madison avenue.....	1,000	6
Ninety-third.....	Madison avenue.....	Eastward.....	337	6
Hundred and eighteenth..	Indiana avenue.....	Howard avenue.....	350	6
Hundred and eighteenth..	Michigan avenue.....	State.....	585	6
Hundred and eighth.....	Michigan avenue.....	Curtis avenue.....	344	6
Hundred and fourth.....	Avenue K.....	Avenue L.....	332	6
Hundred and seventh.....	Curtis avenue.....	Michigan avenue.....	354	8
Hundred and seventeenth..	Howard avenue.....	Front.....	872	6
Hundred and seventeenth..	State.....	Eastward.....	63	6
Hundred and sixteenth....	State.....	Eastward.....	131	6
Ontario avenue...	Seventy-ninth.....	Eightieth.....	614	6
Ontario avenue...	Eighty-fifth.....	230 ft. N. of Eighty-third..	1,516	6
Prairie avenue...	Crossing.....	Forty-third.....	66	16
Prairie avenue...	Forty-third.....	Fifty-first.....	5,268	14
Prairie avenue...	Thirty-ninth.....	Forty-third.....	2,620	16
Reynolds avenue...	Seventy-ninth.....	Railroad avenue.....	970	6

HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Saginaw avenue...	Eighty-seventh	Eighty-eighth.....	650	6
Sawyer avenue.....	State	Eastward.....	87	6
Schill avenue.....	Seventy-fifth	160 ft. N. of Seventy-fourth	860	6
Scipp avenue.....	Seventy-first.....	Seventy-third.....	1,337	6
Seventh avenue.....	Ninety-eighth	Hundredth.....	1,384	6
Seventy-fifth.....	Spencer avenue.....	Eastward.....	322	8
Seventy-first.....	Spencer avenue.....	Westward.....	120	6
Seventy-first.....	Champlain avenue	78 ft. W. of Champlain avenue.....	121	6
Seventy-fourth place	Bissell avenue	Matterson avenue.....	377	6
Seventy-fourth.....	Bissell avenue	Railroad avenue.....	829	6
Seventy-ninth.....	Crossing.....	Bond avenue.....	30	6
Seventy-second.....	Langley avenue.....	Champlain avenue.....	327	6
Seventy-seventh.....	Dobson avenue.....	Greenwood avenue.....	330	6
Seventy third.....	Paxton	23 E. of Luella avenue.....	336	8
Sixtieth.....	Crossing.....	Michigan avenue.....	96	6
Sixtieth.....	Crossing.....	Wabash avenue.....	96	6
Sixty-first.....	Crossing.....	Michigan avenue.....	96	6
Sixty-first.....	Crossing.....	Wabash avenue.....	96	6
Sixty-first.....	Crossing.....	Wharton avenue.....	72	6
Sixty-first.....	Crossing.....	Ellis avenue.....	72	6
Sixty-second.....	Crossing.....	Ellis avenue.....	72	6
Sixty-second.....	Cottage Grove avenue.....	Greenwood avenue.....	1,710	6
Sixty-second.....	Crossing.....	Wharton avenue	72	6
Sixty-second.....	Crossing.....	Michigan avenue.....	96	6
Sixty-second.....	Crossing.....	Drexel avenue.....	72	6
Sixty-second.....	Crossing.....	Wabash avenue.....	96	6
Sixty-second.....	Crossing.....	Greenwood avenue.....	72	6
South Chicago avenue.....	Commercial avenue	Exchange avenue.....	537	8
South Chicago avenue.....	Exchange avenue	Manistee avenue.....	1,646	8
South Park avenue.....	Seventy-first	Southward	430	6
South Park avenue.....	Fifty-second.....	Fifty-fifth	1,935	6
Spencer avenue.....	Seventy-fifth	Seventy-first.....	2,645	6
Spencer avenue.....	Seventy-fifth	Seventy-sixth.....	640	6
State.....	Hundred and seventh.....	Hundred and seventeenth..	1,304	8
State.....	Hundred and fifteenth.....	Hundred and nineteenth.....	1,323	8
Stewart avenue.....	Hundred and fifteenth	Hundred and sixteenth.....	624	8
St. Louis avenue.....	Fifty-first	Forty-sixth	3,264	6
Wabash avenue.....	Brackett avenue	Northward	140	6
Wabash avenue.....	Crossing.....	Brackett avenue.....	31	6
Washington avenue.....	Eighty-first.....	Eighty-second	650	6
Washington avenue.....	Ninety-first.....	Ninety-second	600	6
Washington avenue.....	Eighty-second.....	Eighty-third.....	684	6
Washtenaw avenue.....	Harvard	Northward	195	8
Wendell avenue.....	Eighty-third	S. line B. & O. right of way.....	580	6
Wharton avenue.....	Sixty-third	Sixtieth	1,920	6
Wharton avenue.....	Fifty-fifth.....	Fifty-fourth place	528	6
Woodlawn avenue.....	Seventy-fourth	95 ft. S. of Seventy-third..	500	6
Total.....			144,457	
Add branch pipe for hydrants.....			912	4
Add branch pipe for hydrants.....			3,108	6
Total feet laid in Hyde Park			148,477	

LAKE VIEW DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley W. of Commercial ave.	Lawrence avenue.....	Webster avenue.....	1,584	6
Alley E. of E. Ravenswood pk	Leland	Lawrence avenue	578	6
Alley E. of E. Ravenswood pk	Wilson	Leland.....	584	6
Alley E. of E. Ravenswood pk	Wilson	Sunnyside.....	584	6
Addison avenue.....	Evanston avenue.....	Halsted.....	529	8
Addison avenue	Halsted.....	Clark.....	1,852	8
Addison avenue	Racine avenue.....	Herndon.....	660	8
Addison avenue.....	Robey.....	49 ft. W. of Wolcott.....	568	8
Aldine place.....	Crossing.....	571 ft. E. of Evanston avenue.....	58	6
Arlington.....	Lawrence avenue	Southward	1,950	6
Ashland avenue	Fullerton avenue	Northward	35	8
Beacon.....	Lawrence avenue	Southward	1,959	6
Belle Plaine avenue.....	Robey.....	Wood.....	1,223	6
Belle Plaine avenue.....	Leavitt.....	25 ft. E. of Lincoln avenue.....	989	6
Berenier.....	Robey.....	West Ravenswood park.....	1,214	6
Berteau avenue	Robey.....	Wood.....	1,224	8
Berwyn avenue.....	N. Clark.....	Southport avenue.....	917	6
Bitter Sweet place.....	Halsted.....	Lake shore	810	6
Buena park terrace.....	Crossing.....	Hazel.....	38	4
Buena park terrace.....	Evanston avenue.....	Eastward.....	500	4
Byron.....	Robey.....	West Ravenswood park.....	1,212	6
Cemetery drive.....	Clark.....	Westward.....	850	6
Center.....	Crossing.....	Lincoln avenue	79	6
Claremont avenue.....	Sulzer avenue	Southward	500	6
Cleveland avenue	Halsted.....	Clark.....	1,342	6
Commercial avenue.....	Byron.....	Grace.....	650	6
Commercial avenue.....	Grace.....	Nellie avenue.....	670	6
Cornelia.....	Lincoln avenue.....	Wood.....	250	6
Cornelia.....	Evanston avenue	Pine Grove avenue.....	492	6
Cornelia.....	Halsted.....	Evanston avenue.....	826	6
Cornelia.....	Robey.....	Wood.....	1,213	6
Cuyler.....	Lincoln avenue.....	Leavitt.....	1,150	6
Cuyler.....	Robey.....	Wood.....	1,223	6
Dover.....	Sunnyside avenue.....	Northward	108	6
Dover.....	Lawrence avenue	Southward	1,870	6
E. Ravenswood park	Grace.....	Nellie avenue.....	669	6
E. Ravenswood park	Byron.....	Grace	650	6
Eastwood avenue.....	Sheffield avenue	Halsted.....	1,235	6
Eddie.....	Southport avenue.....	Racine avenue.....	1,325	6
Eddie.....	Robey.....	Wood.....	1,213	6
Elaine place	Cornelia.....	Southward	47	6
Evanston avenue	North Fifty-ninth.....	Bryn Mawr avenue.....	2,663	6
Farragut avenue.....	Clark.....	Southport avenue	942	6
Faye.....	Lincoln avenue.....	West Ravenswood park.....	1,062	6
Francis.....	Clark.....	Eastward.....	464	6
Frank.....	Diversey avenue	6 ft. S. of Surf.....	471	4
Graceland avenue	Lincoln avenue	Leavitt.....	1,986	8
Graceland avenue	East Ravenswood park.....	Lincoln avenue.....	670	8
Graceland avenue	Clark.....	174 ft. W. of Alexander.....	1,426	8
Halsted	Graceland avenue.....	Evanston avenue.....	535	6
Halsted.....	Fullerton avenue.....	Wrightwood avenue.....	1,400	16
Hazel.....	Buena avenue	Sulzer.....	1,200	6
Herndon.....	Crossing.....	Addison avenue.....	49	6
Huck.....	Lawrence avenue	Clay.....	1,276	6
Irving avenue.....	Sulzer.....	Southward	500	6

LAKE VIEW DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Jamot	Leavitt	Robey	1,250	6
Kenmore avenue ..	Lawrence avenue ..	Northward	336	6
Lake View avenue ..	Fullerton avenue ..	Northward	392	6
Larrabee	Fullerton avenue ..	Frederick	452	6
Lawrence avenue ..	Huck	Eastward	117	8
Lawrence avenue ..	Clark	Sheffield avenue ..	3,445	8
Leavitt	Graceland avenue ..	Northward	672	8
Leo place	Lincoln avenue	Eastward	511	6
Lincoln avenue	Graceland avenue ..	Grace	1,469	8
Lincoln avenue	Graceland avenue ..	5 ft. N. of Belle Plaine ..	762	8
Lincoln avenue	Crossing	Belle Plaine	46	6
Lincoln avenue	Belle Plaine	Berteau avenue	736	8
Magnolia avenue ..	22 ft. S. of Bryn Mawr ..	Balmoral avenue	1,817	6
Magnolia avenue ..	North Fifty-ninth ..	Balmoral avenue	1,345	6
Maldon	Lawrence avenue ..	Southward	1,947	6
Marquette terrace ..	Halsted	Eastward	350	6
May	Crossing	Wolfram	68	6
Meadow Lane	Kemper place	Ridge avenue	494	6
Meadow Lane	Grant	Kemper place	605	6
Nellie avenue	Clark	Racine avenue	308	6
Nelson	270 ft. E. of Blucher ..	Southward	356	6
Nelson	Paulina	Wood	645	6
Noble avenue	Crossing	Southward	88	6
Noble avenue	86 ft. E. of Seminary avenue	Baxter	226	6
Oak Grove place ..	Clark	Racine avenue	472	4
Oakley avenue	Sulzer avenue	Southward	500	6
Paulina	South	Southward	578	6
Paulina	Noble	Nelson	343	6
Paulina	Wrightwood avenue ..	Northward	453	6
Paulina	Wellington avenue ..	Nelson	333	6
Pensacola	Robey	Westward	487	6
Pensacola	446 ft. W. of Robey ..	25 ft. W. of Hoyne avenue ..	244	6
Reta	Addison	Southward	45	6
Ridge avenue	Meadow Lane	404 ft. southeast	425	6
Ridge avenue	18 ft. S. of Hood avenue ..	Peterson avenue	850	6
Ridge avenue	Grand avenue	Hood avenue	500	6
Robey	Addison avenue	Cornelia	710	8
Robey	Sulzer	Pensacola	300	8
Robey	Graceland avenue ..	Berteau avenue	1,345	8
Robey	Grant avenue	Clay	658	6
Robey	Graceland avenue ..	Grace	1,819	8
Rokeby	Crossing	Addison avenue	86	6
Rokeby	Nellie avenue	Addison avenue	595	6
Rokeby	Addison avenue	Southward	614	6
Roscoe	Lincoln avenue	Wood	733	6
Seminary avenue ..	Wellington avenue ..	Southward	48	6
Seminary avenue ..	Crossing	Wolfram	70	6
South	Clark	Westward	548	6
St. Elmo	Robey	Wood	1,213	6
Sulzer avenue	Leavitt	Westward	1,618	8
Summerdale avenue	Clark	Southport avenue	902	6
Sunnyside avenue ..	Leavitt	Clairmont	976	6
Warner	Robey	Wood	1,220	6
Warner	Robey	Leavitt	1,310	6
Waubun	Swift avenue	Oakdale avenue	465	6

LAKE VIEW DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Webster avenue . . .	Clark	Eastward	688	6
Wellington avenue . .	Paulina	Wood	625	6
Wilson avenue	Clark	Eastward	1,550	6
Wilton place	Crossing	Addison avenue	84	6
Wilton place	Addison avenue	Cornelia	610	6
Wilton	Nellie avenue	Addison avenue	650	6
Wolfram	Halsted	Racine avenue	2,650	12
Total			94,178	
Add branch pipe for hydrants			804	4
Add branch pipe for hydrants			960	6
Total feet laid in Lake View			95,937	

LAKE DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Alley S. of Fifty-fifth	Morgan	Aberdeen	663	8
Alley S. of Fifty-fifth	Crossing	Ashland avenue	50	6
Alley N. of Fifty-fifth	Crossing	Ashland avenue	28	6
Alley N. of Fifty-fifth	Crossing	Union	66	6
Alley N. of Fifty-fifth	Crossing	Carpenter	25	6
Aberdeen	Alley S. of Fifty-fifth	Fifty-sixth	313	6
Aberdeen	Fifty-sixth	Southward	200	6
Ada	Fifty-ninth	Southward	629	6
Ada	Sixty-first	Sixty-second	660	6
Ada	Sixty-second	Southward	516	6
Archer avenue	Underwood avenue	4 ft. W. of Spencer	407	8
Ashland avenue	Forty-first	Northward	445	6
Atlantic	Forty-fifth	Southward	52	6
Berlin	Hoyne avenue	Robey	640	6
Berlin	Hoyne avenue	Leavitt	575	6
Birkhoff avenue	Eighty-third	Alley N. of Vincennes road	889	6
Bishop	Fifty-seventh	Fifty-eighth	648	6
Bishop	Sixty-third	Southward	246	6
Bishop	Fifty-seventh	Alley S. of Fifty-fifth	996	6
Blanchard avenue	Fiftieth	Northward	167	6
Bristol	Wentworth avenue	19 ft. W. of Clark	504	6
Bronson	Loomis	Throop	700	6
Butterfield	Crossing	Forty-third	41	6
Carpenter	Alley S. of Fifty-fifth	Fifty-sixth	313	6
Carpenter	Eighty-sixth	22 ft. N. of Eighty-fifth	921	6
Claremont avenue	Sixty-ninth	Sixty-seventh	1,313	6
Claremont avenue	Crossing	Sixty-seventh	32	6
Claremont avenue	Sixty-ninth	Seventy-first	1,290	6
Dearborn	Fifty-ninth	Sixtieth	506	6
Eighty-second	Rock Island railroad	Westward	619	6
Eighty-seventh	Morgan	Carpenter	333	8
Eighty-seventh	Vincennes	Halsted	461	8
Eighty-seventh	Union avenue	Desplaines	333	8
Eighty-seventh	Halsted	Union	621	8
Eighty-seventh	Carpenter	Throop	1,685	8
Eighty-sixth	Morgan	Carpenter	333	6
Eighty-third	Kerfoot avenue	Birkhoff	296	8
Elizabeth	Eighty-seventh	Southward	59	6
Elizabeth	Sixty-second	Southward	525	6
Elizabeth	Sixty-second	Northward	200	6
Emerald avenue	Crossing	Forty-third	8	8
Emerald avenue	Thirty-ninth	8 ft. N. of Forty-seventh	5,300	16
Emerald avenue	Fifty-ninth	Southward	350	6
Emerald avenue	Crossing	Forty-seventh	33	16
Emerald avenue	Crossing	Forty-seventh	22	8
Fiftieth court	Halsted	Winter	589	6
Fiftieth court	Crossing	Union avenue	66	6
Fiftieth	Oakley avenue	Blanchard avenue	1,959	6
Fiftieth	Crossing	Union avenue	41	6
Fiftieth	Center avenue	Loomis	1,328	6
Fifty-eighth	Crossing	Ashland avenue	80	6
Fifty-eighth	Crossing	Halsted	92	6
Fifty-fourth court	Crossing	Union	25	6
Fifty-fourth court	Union	Wallace	634	6
Fifty fourth	Crossing	Ashland avenue	80	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fifty-fourth.....	Crossing.....	Union.....	66	6
Fifty-second.....	Morgan.....	Eastward.....	700	6
Fifty-second.....	Crossing.....	Union avenue.....	66	6
Fifty-second.....	Crossing.....	Ashland avenue.....	80	6
Fifty-seventh.....	Crossing.....	Ashland avenue.....	80	6
Fifty-sixth.....	Crossing.....	Ashland avenue.....	80	6
Fifty-third.....	Crossing.....	Ashland avenue.....	50	6
Fortieth.....	Crossing.....	Ashland avenue.....	47	6
Forty-eighth.....	Crossing.....	Ashland avenue.....	80	6
Forty-fifth.....	Blanchard avenue.....	157 ft. W. of Western avenue.....	1,145	6
Forty-fifth.....	Emerald avenue.....	Halsted.....	281	6
Forty-fifth.....	Crossing.....	Ashland avenue.....	80	6
Forty-first.....	Crossing.....	Ashland avenue.....	47	6
Forty-fourth.....	Crossing.....	Emerald avenue.....	66	6
Forty-ninth court.....	Crossing.....	Union avenue.....	66	6
Forty-ninth.....	Crossing.....	Ashland avenue.....	15	6
Forty-second.....	Crossing.....	Emerald avenue.....	66	6
Forty-second.....	Crossing.....	Wallace.....	28	4
Forty-second.....	Halsted.....	Emerald avenue.....	257	6
Forty-sixth.....	Crossing.....	Ashland avenue.....	30	6
Green.....	Seventy-seventh.....	Seventy-fifth.....	1,200	6
Green.....	Sixty-third.....	Southward.....	1,286	6
Goodspeed.....	Crossing.....	Sixty-seventh.....	44	6
Hanover.....	Fifty-first.....	Northward.....	376	6
Hart avenue.....	Fiftieth.....	Northward.....	250	6
Harvard.....	Seventy-fourth.....	Southward.....	204	6
Honore.....	Seventy-first.....	Southward.....	687	6
Hoyne avenue.....	Berlin.....	Seventy-first.....	998	6
Hoyne avenue.....	Forty-seventh.....	Forty-eighth.....	637	6
Hoyne avenue.....	Sixty-ninth.....	Berlin.....	315	6
Irving avenue.....	Sixty-ninth.....	Sixty-seventh.....	1,313	6
Irving avenue.....	Crossing.....	Sixty-seventh.....	33	6
Irving avenue.....	Sixty-ninth.....	Seventy-first.....	1,295	6
James place.....	Robey.....	Hoyne avenue.....	623	6
Lafayette avenue.....	8 ft. N. of Seventy-third.....	Southward.....	681	6
Lafin.....	Fifty-seventh.....	Alley S. of Fifty-fifth.....	996	6
Lafin.....	Sixty-third.....	Northward.....	336	6
Lincoln.....	Crossing.....	Sixty-seventh.....	41	6
Loomis.....	Fifty-ninth.....	Southward.....	623	6
Loomis.....	Sixty-first.....	Sixty-second.....	694	6
Manchester avenue.....	Hoyne avenue.....	Leavitt.....	580	6
Manchester avenue.....	Hoyne avenue.....	Robey.....	640	6
May.....	Fifty-first.....	Northward.....	641	6
Morgan.....	Eighty-sixth.....	38 ft. N. of Eighty-fifth.....	722	8
Morgan.....	Alley S. of Fifty-fifth.....	Fifty-sixth.....	373	6
Oakley avenue.....	Sixty-ninth.....	Sixty-seventh.....	1,313	6
Oakley avenue.....	Sixty-ninth.....	Seventy-first.....	1,295	6
Oakley avenue.....	Crossing.....	Sixty-seventh.....	33	6
Page.....	Seventy-first.....	Seventy-fourth.....	1,982	6
Paulina.....	Forty-seventh.....	Forty-sixth.....	660	6
Peoria.....	Sixty-third.....	Southward.....	1,286	6
Peoria.....	Seventy-seventh.....	Seventy-fifth.....	1,200	6
Peoria.....	Fifty-seventh.....	Northward.....	284	6
Peoria.....	Eighty-fifth.....	Northward.....	479	6
Perry.....	Seventy-third.....	Southward.....	674	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Pleasant avenue...	Ninety-third	Ninety-fifth.	1,325	6
Princeton avenue...	Crossing	Forty-fifth.	25	6
Robey	Crossing	Sixty-seventh.	39	8
Sackett	Fiftieth.	Northward	250	6
Sackett.	Fifty-sixth	Southward	125	6
Sangamon	Sixty-third.	Southward	1,286	6
Sangamon	Seventy-seventh.	Seventy-fifth.	1,200	6
Seventieth.	Hoyne avenue.	Robey	640	6
Seventieth.	Crossing	Dickey.	66	6
Seventieth.	Hoyne avenue.	Leavitt.	580	6
Seventieth.	Crossing	Honore	66	6
Seventy-first.	Hoyne avenue.	Leavitt.	580	6
Seventy-first.	Crossing	Dickey.	66	6
Seventy-first.	Hoyne avenue.	Robey	640	6
Seventy-first.	Crossing	Honore	66	6
Seventy-third.	Wentworth avenue.	Lafayette avenue.	923	6
Sherman	Crossing	Forty-third.	41	6
Sixty-eighth.	Crossing	Honore	80	6
Sixty-eighth.	Crossing	Wright.	25	4
Sixty-eighth.	Crossing	Halsted.	94	6
Sixty-fifth.	Crossing	Halsted.	38	8
Sixty-fifth.	Crossing	Halsted.	56	6
Sixty-first.	Loomis	Throop.	666	6
Sixty-fourth.	Sherman	Wallace.	242	6
Sixty-fourth.	Emerald avenue	Halsted.	225	6
Sixty-fourth.	Crossing	Halsted.	95	6
Sixty-ninth.	Crossing	Hoyne avenue	25	6
Sixty-ninth.	Crossing	Western avenue.	40	8
Sixty-second.	Center avenue.	Elizabeth	350	6
Sixty-seventh.	Crossing	Halsted.	77	24
Sixty-seventh.	Halsted.	180 ft. E. of Ashland avenue	5,061	24
Sixty-seventh.	Wood	Western avenue.	4,061	8
Sixty-sixth.	Crossing	Sherman	66	6
Sixty-sixth.	Crossing	Halsted.	94	6
Sixty-sixth.	90 ft. W. of Sherman.	Honore	645	6
Sixty-third court.	Crossing	Halsted.	54	6
Snider	Crossing	Wallace.	25	6
Snider	Crossing	Emerald avenue.	66	6
South Normal parkway.	Crossing	Stewart avenue	77	6
South Normal parkway.	Wright	Stewart avenue	604	6
South Normal parkway.	Crossing	Wright.	41	6
Spencer	Archer avenue.	Southward	441	6
Stewart avenue.	Sixty-ninth.	South Normal parkway.	219	8
Tracey avenue	Crossing	Forty-fifth.	25	6
Throop	Sixty-first	Sixtieth.	641	6
Throop	Crossing	Eighty-seventh.	59	6
Throop	Sixty-first	Sixty-second.	655	6
Union	Fifty-fifth	Northward.	724	6
Union avenue.	Forty-ninth	Fiftieth	668	6
Union	Vincennes road.	Eighty-seventh	694	6
Union	Eighty-seventh	Northward	538	6
Union	Vincennes road.	Eastward.	158	6
Vincennes road.	Seventy-third	Seventy-fourth.	710	8
Wallace	Gordon	Northward	231	4
Wallace	Root	Forty-second.	308	6

LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Wallace	Thirty-ninth	Southward	700	6
Ward avenue	Thirty-ninth	Southward	588	6
Webster avenue	Seventy-fourth	Southward	204	6
Wentworth avenue ..	Crossing	Seventy-third	24	8
Western avenue	Fifty-first	Northward	958	8
Western avenue	Forty-third	Forty-second	680	6
Western avenue	Sixty-seventh	Seventy-first	2,650	8
Western boulevard ..	Forty-third	Forty-second	680	6
William	Crossing	Forty-third	25	6
Winchester avenue ..	Crossing	Sixty-seventh	44	6
Winter	Fifty-ninth	Southward	350	6
Wood	Forty-seventh	Forty-sixth	700	6
Wood	Seventy-first	Seventy-fourth	1,982	6
Wright	Crossing	Forty-fifth	66	6
Total			94,878	
Add branch pipe for hydrants			672	4
Add branch pipe for hydrants			1,356	6
Total feet laid in Lake District			96,401	

JEFFERSON DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Allen avenue.....	Milwaukee avenue.....	Homan avenue.....	1,254	6
Armitage road.....	124 ft. W. of Howard avenue	Fifty-first.....	5,153	12
Ashland avenue.....	Willis.....	75 ft. N. of Franklin.....	1,450	6
Austin avenue.....	Maynard.....	400 ft. S. of Lawrence avenue.....	1,400	6
Avondale avenue.....	Belmont avenue.....	Southeast.....	1,636	6
Belmont avenue.....	60 ft. W. of Wallace.....	135 ft. W. of Byron.....	1,400	8
Belmont avenue.....	Holcom avenue.....	13 ft. N. of Madison.....	2,625	8
Belmont avenue.....	Crossing.....	Elston avenue.....	127	6
Belmont avenue.....	Elston avenue.....	Hammond.....	2,180	6
Berlin.....	Cromwell.....	California avenue.....	493	6
Bloomington road.....	Norman avenue.....	Kedzie avenue.....	275	6
Brunswick.....	Eldridge.....	Center.....	420	6
Byron avenue.....	Garden avenue.....	Southward.....	350	6
Byron avenue.....	Belmont avenue.....	Garden avenue.....	1,300	6
Byron avenue.....	12 ft. W. of California avenue.....	Humboldt.....	725	6
Byron avenue.....	Humboldt boulevard.....	Eastward.....	16	6
Center avenue.....	Montrose boulevard.....	Northward.....	430	6
Center.....	St. Charles.....	Greenwood.....	443	6
Center.....	Crossing.....	Elston avenue.....	36	6
Center.....	Park avenue.....	Holcom avenue.....	590	6
Center.....	Irving avenue.....	Selwyn avenue.....	406	6
Center.....	Selwyn avenue.....	Park avenue.....	400	6
Center.....	Franklin.....	Southward.....	204	6
Central Park avenue.....	25 ft. N. E. of Milwaukee avenue.....	Northward.....	820	8
Clarkson avenue.....	Crossing.....	Humboldt.....	15	6
Columbia avenue.....	Grand avenue.....	Northward.....	450	8
Columbia avenue.....	Armitage.....	Humboldt.....	1,366	8
Columbia avenue.....	24 ft. W. of Milwaukee avenue.....	Leavitt.....	543	6
Crawford avenue.....	Milwaukee avenue.....	Southward.....	2,650	12
Crawford avenue.....	Diversey avenue.....	Northward.....	809	12
Danforth.....	Strong.....	Everett.....	885	6
Delamater place.....	Courtland.....	Southward.....	370	6
Dickens avenue.....	Crossing.....	Humboldt.....	16	6
Dickens avenue.....	Ballou avenue.....	Kimball avenue.....	485	6
Diversey avenue.....	Crossing.....	Milwaukee avenue.....	88	8
Diversey avenue.....	Crawford avenue.....	Eastward.....	122	8
Diversey avenue.....	Wallace.....	Eastward.....	145	8
Dowson.....	Milwaukee avenue.....	Garden avenue.....	1,300	6
Durham avenue.....	Crossing.....	Armitage.....	35	6
Dwight.....	Danforth.....	130 ft. E. of Everett.....	480	6*
Edward.....	Lawrence avenue.....	Northward.....	426	6
Elderkin.....	Milwaukee avenue.....	Everett.....	2,100	6
Eldridge avenue.....	Central Park.....	Brunswick.....	576	6
Elston avenue.....	Belmont avenue.....	114 ft. N. of Roscoe.....	2,110	8
Elston avenue.....	Hoffman.....	California avenue.....	1,855	8
Elston avenue.....	Western avenue.....	Southward.....	1,278	8
Evergreen.....	Wallace.....	Humboldt.....	333	6
Everett.....	Selwyn.....	Westward.....	525	6
Everett.....	100 ft. W. of Park avenue.....	Washington.....	256	6
Fairview avenue.....	200 ft. S. of Diversey avenue	164 ft. N. of Evergreen...	236	6
Fairview avenue.....	Evergreen.....	Northward.....	158	6
Fiftieth place (West).....	Crossing.....	Armitage avenue.....	35	6
Fiftieth (West).....	Crossing.....	Armitage avenue.....	35	8
Fifty-first (West).....	Crossing.....	Grand avenue.....	75	8
Fifty-fourth place (West).....	Crossing.....	Austin avenue.....	46	6

JEFFERSON DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fortieth (West)...	Augusta	Southward	190	12
Francisco	Belmont avenue	Elston avenue	452	6
Franklin avenue	Wallace	Humboldt	332	6
Fullerton avenue	Milwaukee avenue	Kedzie avenue	1,800	8
Fullerton avenue	Crossing	Humboldt	255	8
Garden avenue	Byron avenue	Homan avenue	678	6
Gray	Lewis	Everett	1,238	6
Greenwood avenue	Prescott	Center	673	6
Greenwood avenue	Crossing	Western avenue	84	6
Greenwood avenue	Center	Elston avenue	1,240	6
Gresham	Milwaukee avenue	Northeast	1,185	6
Hammond avenue	Belmont avenue	40 ft. N. of Roscoe	1,800	6
Hammond avenue	Avondale	Southward	2,000	6
Harrison	70 ft. E. of Forty-fourth place	Forty-eighth	2,484	8
Hesing avenue	Koenig	Elston avenue	189	6
Holcom avenue	Center	Northwest	700	6
Holcom avenue	Willis	Belmont avenue	125	6
Holcom avenue	Montrose	Northwest	800	6
Hollowell	58 ft. S. of Huntington	73 ft. N. of Huntington	200	6
Homan avenue	Belmont avenue	Garden avenue	1,800	6
Humboldt	Evergreen	Humboldt boulevard	548	8
Humboldt avenue	Franklin	Southward	315	6
Humboldt avenue	Belmont avenue	Roscoe	1,200	6
Humboldt avenue	Crossing	Milwaukee avenue	70	6
Humboldt avenue	12 ft. S. of Armitage avenue	24 ft. N. of Cortland	560	6
Humboldt avenue	20 ft. S. of Cortland	Southward	230	6
Humboldt boulevard	Crossing	Nebraska	94	6
Humboldt boulevard	Bloomington road	Southward	300	6
Humboldt blvd (W.S.)	200 ft. N. of Armitage avenue	Shakespeare	912	6
Humboldt blvd (E.S.)	Armitage avenue	100 ft. S. of Shakespeare	1,006	6
Humboldt boulevard	Crossing	Clarkson	90	6
Humboldt	Shakespeare	Palmer	360	6
Hunting avenue	Holcom	Franklin	1,822	6
Huntington	Pratt	Hollowell	635	6
Irving avenue	Montrose boulevard	Northward	350	8
Irving avenue	Warner avenue	Montrose boulevard	5,284	8
Irving avenue	Milwaukee avenue	Warner avenue	773	8
Irving Park blvd	Park avenue	Selwyn avenue	406	8
Jackson place	Armitage avenue	Northward	36	6
Jefferson avenue	Armitage avenue	Humboldt avenue	1,288	8
Kedzie avenue	Crossing	Fullerton avenue	124	6
Kedzie avenue	Belmont avenue	Garden avenue	1,288	6
Kedzie avenue	Crossing	Fullerton avenue	124	8
Kimble avenue	Diversey avenue	Southward	2,150	6
Kimble avenue	McLean	Northward	320	8
Koenig avenue	Belmont avenue	Hesing	620	6
Larwence avenue	500 ft. E. of Edwards	627 ft. W. of Austin avenue	1,860	8
Lawrence avenue	Milwaukee avenue	Everett	875	8
Lewis	Crossing	Clybourn avenue	65	6
Lewis	Pratt	12 ft. N. of Elderkin	673	6
Maynard avenue	Milwaukee avenue	Austin avenue	1,767	6
Maynard avenue	Crossing	Austin avenue	44	6
Mead	12 ft. N. of Humboldt avenue	Mentmore avenue	573	6
Milwaukee avenue	304 ft. N. of Elderkin	123 ft. S. of Eastman	977	8
Montrose boulevard	Ashland avenue	Holcom	1,150	8

JEFFERSON DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Nebraska.....	28 ft. N. of Cortland	12 ft. S. of Armitage road..	556	6
Nebraska	Crossing	Humboldt boulevard	15	6
Norwood avenue	Kedzie avenue	Sheridan	682	6
Our	Lawrence avenue	Northward	1,090	6
Palmer avenue	Kedzie avenue	Eastward	465	6
Park avenue	Everett	12 ft. N. of Willis	3,350	6
Park avenue	Garden avenue	Belmont avenue	1,300	6
Pierce avenue	Sheridan avenue	Eastward	344	6
Pierce avenue	Sheridan avenue	Homan	625	6
Pratt	Elderkin	Strong	1,710	6
Prescott	Greenwood	Eastward	412	6
Shakespeare	Mozart	12 ft. W. of California avenue ..	345	6
Shakespeare	Crossing	Humboldt	33	6
Sheldon	Milwaukee avenue	Douglas avenue	1,340	6
Sheridan	12 ft. S. of Armitage avenue ..	Wabansia avenue	1,907	6
Sheridan	Belmont avenue	Garden avenue	1,289	6
Short	Milwaukee avenue	Eastward	497	6
Selwyn avenue	Montrose boulevard	Northward	330	6
Selwyn avenue	Warner avenue	Montrose boulevard	5,300	6
Seventeenth (West)	Fisk	Westward	170	6
Sobieski	Fullerton avenue	Southward	63	6
Stave	132 ft. S. of Cornelia	Southward	162	6
St. Charles avenue	Warner avenue	24 ft. N. of Irving Park boulevard ..	2,734	6
St. Charles avenue	24 ft. N. of Irving Park boulevard ..	12 ft. N. of Willis	1,966	6
Stewart avenue	Montrose	50 ft. N. of Franklin	738	6
Stewart avenue	60 ft. N. of Franklin	50 ft. S. of Madison	1,182	6
St. James avenue	Holcom	Washington	1,108	6
Sufferon	Leavitt	Robey	1,310	6
Thomas avenue	Belmont avenue	Elston avenue	1,085	6
Thomas avenue	Crossing	Fullerton avenue	124	6
Thomas avenue	Avondale	Southward	353	8
Thomas avenue	Crossing	Johnson avenue	125	6
Thomas avenue	Crossing	Milwaukee avenue	97	8
Vernon avenue	Milwaukee avenue	Douglas avenue	1,020	6
Wallace	Diversey avenue	Evergreen	673	6
Wallace	Belmont avenue	Elston avenue	1,750	6
Wallace	Avondale	Diversey avenue	2,214	6
Warner avenue	Milwaukee avenue	St. Charles avenue	1,345	8
Washington	Everett	Northward	316	6
Washington	St. James	Steward avenue	312	8
Western avenue	240 ft. S. of Diversey avenue ..	20 ft. S. of Evergreen	430	8
Willis	Hunting avenue	Holcom	670	6
Woodward	Milwaukee avenue	Byron avenue	1,232	6
Yannatta	Armitage avenue	Humboldt	1,285	6
Total			134,107	
Add branch pipe for hydrants			540	4
Add branch pipe for hydrants			3,768	6
Total feet laid in Jefferson District			138,415	

CALUMET DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Butler	Crossing	Hundred and eleventh.....	43	6
Butler	Hundred and fifteenth	Hundred and eleventh.....	2,597	6
Canal	Eighty-eighth	Southward.....	1,248	8
Carpenter	Eighty-seventh	Southward.....	867	6
Clark	Crossing	Hundred and sixteenth	43	6
Clark	Hundred and nineteenth	Hundred and twentieth.....	646	6
Clark	Hundred and nineteenth	Hundred and fifteenth.....	2,664	6
Clinton.....	Eighty-eighth	Southward	1,250	6
Dearborn	Hundred and eighteenth.....	Hundred and fifteenth.....	1,956	6
Dearborn	Hundred and eighteenth	Hundred and twentieth.....	1,841	6
Dearborn	Crossing	Hundred and fifteenth.....	43	6
Desplaines.....	Eighty-seventh	Southward	1,152	6
Desplaines.....	Eighty-seventh	Vincennes.....	1,122	6
Eighty-eighth.....	Desplaines.....	Canal.....	1,305	6
Evergreen place.....	Ninety-fifth	Ninety-fourth.....	674	4
Forrest avenue.....	Crossing	Ninety-third.....	80	6
Forrest avenue.....	Crossing	Ninety-fifth.....	48	6
Gano avenue.....	Hundred and seventeenth.....	Hundred and fifteenth.....	1,311	6
Hanover.....	Hundred and fifteenth	Hundred and eleventh.....	2,597	6
Hanover.....	Crossing	Hundred and eleventh.....	43	6
Howard	Crossing	Hundred and nineteenth.....	16	6
Jefferson	Eighty-eighth	Southward	1,247	6
La Salle.....	Hundred and fifteenth.....	Hundred and eighteenth.....	1,976	6
La Salle.....	Crossing	Hundred and fifteenth.....	48	6
Laurel	Ninetieth	Southward.....	348	6
Murray.....	100 ft. S. of Eighty-eighth.....	Southward.....	641	6
Ninety-first	Pine.....	Laurel	442	6
Ninety-fifth	Crossing	Prospect avenue.....	177	8
Ninety-fifth	Prospect avenue	Forrest avenue.....	568	8
Hundred and eighteenth.....	Stewart avenue	Dearborn.....	2,222	6
Hundred and eighteenth.....	Crossing	Dearborn.....	43	6
Hundred and eleventh	Wallace	86 ft. E. of Stewart avenue.....	1,324	8
Hundred and fifteenth	Crossing	Canal.....	43	6
Hundred and fifteenth.....	Canal.....	Park avenue.....	668	12
Hundred and fifteenth.....	Gano	Michigan avenue.....	2,870	12
Hundred and nineteenth.....	Portland avenue	Clark.....	1,296	6
Hundred and seventeenth.....	Gano	Clark.....	1,618	6
Hundred and sixteenth.....	Stewart avenue.....	Portland avenue	652	6
Hundred and sixteenth.....	Wentworth avenue.....	Dearborn.....	929	6
Park avenue	Crossing	Hundred and fifteenth.....	44	8
Parnell.....	Crossing	Hundred and eleventh.....	43	6
Parnell.....	Hundred and fifteenth	Hundred and eleventh.....	2,597	6
Pine	Ninety-first	Ninetieth	634	6
Pine	Ninety-first	Ninety-second	657	6
Portland avenue.....	Crossing	Hundred and nineteenth.....	23	6
Portland avenue	Hundred and nineteenth	Hundred and fifteenth.....	2,617	6
Prospect avenue.....	Crossing	Ninety-fifth.....	48	6
Sheffield avenue	Crossing	Hundred and nineteenth.....	12	8
Shurtleff avenue.....	Crossing	Hundred and fifteenth.....	43	6

CALUMET DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Shurtleff avenue....	Hundred and fifteenth....	Hundred and nineteenth...	2,659	6
Stewart avenue....	Hundred and fifteenth....	Hundred and eleventh....	2,640	8
Union.....	Eighty-eighth.....	Southward.....	1,261	6
Wallace.....	Eighty-eighth.....	Southward.....	1,250	6
Wallace.....	Hundred and fifteenth....	Hundred and eleventh....	2,640	8
Wentworth avenue..	Crossing.....	Hundred and fifteenth....	43	8
Wentworth avenue..	Hundred and eighteenth..	Hundred and fifteenth....	1,976	8
Total.....			57,848	
Add branch pipe for hydrants.....			836	4
Add branch pipe for hydrants.....			1,020	6
Total feet laid in Calumet District....			58,699	

RECAPITULATION OF PIPE LAID DURING 1891, INCLUDING HYDRANT BRANCHES.

DIVISION.	DIAMETER OF PIPE IN INCHES.									Total length of pipe in feet.
	4-inch.	6-inch.	8-inch.	12-inch.	14-inch.	16-inch.	24-inch.	36-inch.	48-inch.	
North.....	148	3,275	2,288	.....	.....	.....	.....	.....	.....	5,711
South	369	9,372	1,646	27	.....	921	16	16,069	30	28,449
West	1,721	65,323	43,897	8,971	.....	39	.....	.....	.....	119,451
Hyde Park.....	912	128,965	10,646	.....	5,268	2,686	.....	.....	.....	148,477
Lake View.....	2,285	68,764	20,838	2,650	.....	1,400	.....	.....	.....	95,987
Lake.....	956	70,689	14,285	.....	.....	5,333	5,138	.....	.....	96,401
Jefferson	540	95,544	38,529	8,802	.....	.....	.....	.....	.....	183,415
Calumet.....	1,010	43,479	10,672	3,538	.....	.....	.....	.....	.....	58,699
Total in Feet.....	7,940	485,411	137,301	23,983	5,268	10,379	5,154	16,069	30	691,540

THE FOLLOWING TABLE SHOWS THE NUMBER OF STOP-VALVES PUT
IN DURING THE YEAR 1891, IN THE CITY OF CHICAGO.

DIVISION.	SIZE OF VALVES.									TOTAL
	4-in.	6-in.	8-in.	10-in.	12-in.	14-in.	16-in.	24-in.	36-in.	
North	1	2								4
South		15	3		1		2	5	4	30
West	7	126	70		19			1	8	236
Hyde Park	2	173	15	2	10	4	4			210
Lake View	4	86	38		4		1	1		134
Lake	5	155	36				3			199
Jefferson		184	59		13					256
Calumet	1	32	13		5					51
TOTALS	20	773	235	2	52	4	10	7	7	1,110

TABLE SHOWING NUMBER AND SIZES OF VALVES IN USE IN THE CITY
OF CHICAGO AT THE END OF 1891, INCLUDING THOSE IN
WASHINGTON HEIGHTS NOT SCHEDULED LAST YEAR.

DIVISION.	SIZE OF VALVES.													TOTAL
	3-inch.	4-inch.	6-inch.	8-inch.	10-inch.	12-inch.	14-inch.	16-inch.	18-inch.	20-inch.	24-inch.	30-inch.	36-inch.	
North.....		169	406	274	....	32	....	13	....	....	12	....	3	909
South.....		154	635	626	....	79	....	18	....	....	27	....	13	1,552
West.....		565	1,763	1,018	....	227	....	63	....	....	31	....	11	3,678
Hyde Park.....		78	686	154	20	49	4	41	....	1	13	3	3	1,052
Lake View.....	1	241	504	101	....	26	3	2	....	3	3	....	..	884
Lake.....	4	105	777	225	2	50	13	12	2	....	14	....	....	1,204
Jefferson.....	....	....	240	113	....	22	....	....	....	....	....	....	....	375
Calumet.....		1	54	25	....	5	....	....	....	....	....	....	....	85
TOTAL..	5	1,313	5,065	2,536	22	490	20	149	2	4	100	3	30	9,739

The following table shows the hydrants placed in 1891, in the city of Chicago:

DIVISION.	2½-inch Single.	2½-inch Double.	4-inch Double.	2½-inch Double, with 4-inch Single.	TOTAL.
North.....	9	14	2	.....	25
South.....	12	24	.....	.....	36
West.....	40	259	.....	.....	299
Hyde Park.....	76	259	.....	.....	335
Lake View.....	67	80	.....	.....	147
Lake.....	56	113	.....	.....	169
Jefferson.....	45	314	.....	.....	359
Calumet.....	28	88	.....	2	118
Totals.....	333	1,146	2	2	1,483

Table showing total number of fire-hydrants in the City of Chicago at the close of 1891, including those in Washington Heights not scheduled last year, and excepting those in Pullman which are private property.

DIVISION.	2½-inch Single.	2½-inch Double.	4-inch Double.	2½-inch Double, with one 4-inch Single.	TOTAL.
North.....	417	473	131	.....	1,021
South.....	768	950	192	.....	1,910
West.....	1,468	3,124	287	.....	4,824
Hyde Park.....	192	1,230	8	605	2,085
Lake View.....	92	758	.....	1	846
Lake.....	67	318	.....	1,597	1,982
Jefferson.....	45	543	.....	.....	588
Calumet.....	28	122	.....	55	205
Total.....	3,072	7,513	568	2,258	13,411

TABLE SHOWING AMOUNT OF PIPE IN USE IN THE CITY OF CHICAGO AT THE CLOSE OF 1891.

The pipe in Washington Heights was not scheduled last year but is now included in the amount in use in 1891.

Diameter of Pipe.	1890.	1891.			
	Amount in Use in Feet.	Amount Taken up or Abandoned in Feet.	Amount Laid in Feet.	Grand Total in Feet in Use at the close of 1891.	Grand Total in Miles.
48	1,825	.....	30	1,855	0.1188
36	75,272	.....	16,069	91,341	17.1188
30	5,577	.....	.....	5,577	1.1188
28	160	.....	.....	160	0.1188
24	178,875	.....	5,154	184,029	34.1188
20	7,981	.....	.....	7,981	1.1188
18	1,000	.....	.....	1,000	0.1188
16	194,872	.....	10,879	204,751	38.1188
14	17,284	.....	5,268	22,552	4.1188
12	416,417	.....	23,988	440,405	82.1188
10	26,860	.....	.....	26,860	5.1188
8	1,807,710	.....	187,301	1,445,011	273.1188
6	3,094,144	.....	485,411	3,579,555	677.1188
4	1,076,345	920	7,940	1,083,365	205.1188
3	16,964	.....	.....	16,964	3.1188
Total in Feet.....	6,420,236	920	691,540	7,110,856	.....
Total in Miles.....	1,215.9188	3.1188	130.1188	1,346.1188	1,346.1188

At time of annexation there was in use in Washington Heights :

27,735 feet of 6-inch Water Pipe.

29,245 feet of 8-inch Water Pipe.

22 6-inch Stop Valves.

12 8-inch Stop Valves.

38 2½-inch Double Hydrants.

53 2½-inch Double Hydrants with one 4-inch Single Nozzle.

During the year 419 meters have been placed, and removed 197 : a net gain of 222. There are in actual use in the city, January 1, 1892, 4,131 water meters. Ten motors for church organs have been connected with the main supply, and thirteen new school houses.

The revenue collected during the year amounted to \$717,068.05 : a net increase of \$45,907.95.

Hydraulic elevators in use December 31, 1890.....	303
Added during the year	<u>1</u>
Total	304

The subject of water works operation and construction is treated of in the subjoined Report of the First Assistant City Engineer, Mr. Bernhard Feind.

Respectfully yours,

L. H. CLARKE,

City Engineer.

FIRST ASSISTANT CITY ENGINEER'S REPORT.

CHICAGO, February 29, 1892.

L. H. CLARKE, Esq.,

City Engineer.

DEAR SIR:—I beg leave to submit in the following an annual report for the year 1891, on operation of the existing water supply system and on construction of additions and improvements.

Water Pipe Extension and Meter Service are not dealt with in this report.

"A"—OPERATION.

The appended diagram shows daily pumpages; table *A* gives monthly pumpages; table *B* gives the most important figures relating to quantities and expenses.

The total quantity pumped during the year by all the pumping stations combined was 63,551,706,550 gallons, which makes an average of 174,114,264 gallons for the whole city per day of twenty-four hours. The population of the city in October, 1890, at the conclusion of the last school census, was 1,218,669. The ratio of increase may safely be estimated at 100,000 per annum, or 8,000 per month. This would give a population of 1,218,669 + 9 × 8,000 = 1,290,000 during July, 1891. Applying the latter figure to a computation of the average rate of consumption of water for the year 1891, we find this rate to have been $174,114,264 \div 1,290,000 = 135$ gallons per head per day. Commencing at the period when Chicago began to assume metropolitan dimensions, the corresponding figures, arranged quinquennially, have been as follows:

Years.	Population.	Co-efficient of increase in population within 5 Years.	Consumption of Water in gallons per head per day of 24 hours.	Co-efficient of increase in consumption within 5 Years.
1865.....	178,492	.....	42.0 *	.....
1870.....	298,700	1.68	72.8	1.73
1875.....	401,000 *	1.34	99.7 *	1.37
1880.....	512,060	1.28	112.0	1.12
1885.....	765,000 *	1.49	116.0 *	1.04
1890.....	1,200,000	1.57	126.8	1.09

* Interpolated.

TABLE "A." MONTHLY PUMPAGE 1891, IN GALLONS.

MONTH.	North Pumping Works.	West Pumping Works.	68th Street Pumping Works.	Central Pumping Works.	Lake View Pumping Works.	Washington Heights Pumping Works.	The City as a Whole.
January.....	1,519,085,720	1,790,302,320	857,013,508	433,595,607	216,199,658	4,440,000	4,821,296,873
February.....	1,453,980,325	1,646,124,780	770,705,702	441,542,123	200,029,786	4,440,000	4,516,822,716
March.....	1,442,025,270	1,853,919,720	813,581,505	626,758,790	236,028,504	4,440,000	5,006,753,789
April.....	1,636,672,325	1,753,591,960	834,826,876	461,639,579	246,815,817	4,440,000	4,937,986,557
May.....	1,716,469,830	1,832,797,540	991,130,779	475,190,924	337,751,847	4,772,000	5,348,112,920
June.....	1,838,504,525	1,829,221,020	810,863,745	469,407,383	356,025,415	6,359,000	5,310,381,688
July.....	1,903,560,145	1,924,508,780	1,055,574,168	482,863,585	416,831,253	6,479,000	5,789,816,930
August.....	1,948,946,055	1,909,509,820	1,100,808,231	480,714,528	367,521,043	4,762,000	5,812,261,677
September.....	1,944,114,975	1,867,604,700	1,032,059,213	468,202,888	330,331,169	4,957,000	5,697,269,945
October.....	1,900,313,530	1,873,365,200	1,039,609,192	505,142,453	349,353,206	4,870,000	5,673,658,581
November.....	1,736,797,365	1,777,774,580	957,501,249	474,585,724	206,654,336	4,385,000	5,157,698,254
December.....	1,848,616,405	1,837,787,520	1,118,493,086	488,324,756	182,413,853	5,010,000	5,480,645,620
	20,889,686,470	21,896,508,540	11,412,173,314	5,807,968,340	3,485,955,886	59,354,000	63,551,705,550

TABLE "B." OPERATIONS OF PUMPING STATIONS DURING 1891.

	North Side.	West Side.	68th Street.	Central.	Lake View.	Washington Heights.	The City as a Whole.
Tons of Anthracite Coal...	8,680,455	18,893,433	7,996	3,135	3,809,107	255,183	8,680,455
Tons of Bituminous Coal...	9,875,400	18,893,433	274,799	3,135	3,809,107	255,183	43,904,377
Gallons of Fuel Oil...	\$5.15	\$2.79	\$2.83	\$3.05	\$2.75	\$3.42	\$5.15
Price of Anth. Coal per ton...	3.18						2.90
Price of Bit. Coal per ton...							
Price of Fuel Oil per 100 gallons...			1.20				1.20
Cost of Anthracite Coal...	\$ 44,705.39		\$ 22,268.68	\$ 9,568.54	\$ 10,474.99	\$ 878.15	\$ 44,705.39
Cost of Bituminous Coal...	31,431.35	\$ 52,592.33	3,297.57				127,214.04
Cost of Fuel Oil...	76,136.74	52,592.33	25,566.25	9,568.54	10,474.99	878.15	3,297.57
Total Cost of Fuel...	46,246.21	42,670.02	38,091.17	19,028.00	11,040.94	1,537.96	175,216.99
Salaries...	9,350.47	12,742.08	2,968.47	1,256.10	335.28	40.00	153,214.30
Cost of Oil and other stores							26,692.40
Total expenses due to pumpage...	131,733.42	108,004.43	66,635.89	29,852.64	22,451.21	2,456.11	361,123.70
All other expenses combined...	1,886.56	1,953.31	2,286.37	12,666.97	750.00	25.00	19,568.21
Grand total expenses...	133,619.98	109,957.74	68,912.26	42,519.61	23,201.21	2,481.11	380,691.91
Total gallons pumped during year...	20,889,086,470	21,896,568,540	11,412,173,314	5,807,968,340	3,485,955,886	59,354,000	63,551,705,550
Per cent of pumpage of city, as a whole...	32.8	34.4	18.0	9.1	5.5	0.2	100.0
Greatest amount pumped in one day; gallons...	72,381,165	65,108,560	38,667,892	23,018,634	14,659,442	295,000	201,501,301
Least amount pumped in one day; gallons...	38,663,700	49,523,880	11,899,750	11,133,200	201,254	65,000	140,775,876
Average pumped per day; gallons...	57,282,013	50,990,599	31,266,228	15,912,242	9,550,564	162,613	174,114,254
Average head against pumping; in feet...	108.4	105.9	125.0	102.0	108.0	115.0	110.0
Cost of Fuel, pumping 1,000,000 gallons, per foot head...	3.28c	2.37c	1.73c	1.85c	2.78c	12.10c	2.81c
Total Cost of pumping 1,000,000 gallons, per foot head...	5.83c	4.10c	4.67c	5.10c	5.10c	35.10c	5.10c

NORTH SIDE PUMPING STATION.

At the *North Side Pumping Station*, which is in charge of Mr. D. H. Welch, the "72" engine, 36 mill., and the two "Gaskill" engines, 12 mill. each, were thoroughly overhauled in January. These three engines and the "67" engine, 18 mill., are in good condition and fit for continued service. The "53" and "57" engines, 8 mill. and 12 mill., respectively, have outlived their usefulness, and so have the old marine boilers. These obsolete and worn-out parts of the plant should soon be replaced by others of modern design. The *Shops* attached to this station have turned out during the year, in addition to the usual repairs for the various branches of the water supply system, the following new pipe line fixtures :

539 Hydrants, Single Nozzle.....	Costing \$	8,404 17
1,475 " Double " 2½ in.....	"	45,971 60
4 " " 4 ".....	"	91 13
90 Stop-Valves, 4 in.....	"	883 13
784 " 6 ".....	"	11,546 50
297 " 8 ".....	"	6,698 39
45 " 12 ".....	"	1,291 66
8 " 16 ".....	"	923 82
3 " 24 ".....	"	589 39
Total cost of labor and material for new fixtures.....		\$76,349 79
Expenditures on account of the repairs above named.....		\$15,310 23

WEST SIDE PUMPING STATION.

At the *West Side Pumping Station*, with its four 15 mill. engines, which is in charge of Mr. James Stewart, the regular annual overhauling of the engines has been postponed in the expectation that it would be carried out with less inconvenience to the water supply system, as a whole, when additional new engines shall have been put into service at the new Central and South Side Stations. The boilers have undergone thorough repairs, and the whole of the plant is in good condition.

CENTRAL PUMPING STATION.

At the *Central Pumping Station*, which is in charge of Mr. Charles McDonald, as a rule only one of the two engines has been operated at a time, owing to lack of water. The engines, two "Reynolds" vertical condensing triple expansion ones, 15 mill. each with use of two-thirds of full boiler capacity, 18 mill. each with use of full boiler capacity, were, on October 25th, subjected to a test which showed a duty performance exceeding the guaranteed one of 125-mill. ft. lbs. per 1,000 lbs. of feed water, and were shortly afterwards finally accepted by the city. No repairs have been made during the year, except the resetting of one battery of boilers, rendered necessary by a settlement of the boiler foundations; the other battery will need resetting shortly for the same reason; otherwise the plant is in good order.

The west 10 feet of the boiler and coal rooms have not been finished yet, the city having been put into possession of the disputed strip of ground in that place only a short time ago.

SIXTY-EIGHTH STREET PUMPING STATION.

At the *Sixty-eighth Street Station* Mr. A. O. Parker, the engineer in charge, has been enabled to keep the 53-mill. plant, which is housed in two different buildings, and consists of three modern 12-mill. engines and a number of small engines of antiquated design, in fair order, by dint of rather a little more than the usual amount of repairs. The newest engine is a "Worthington High Duty" 12-mill. one, which has been operated by the city's own men only since June 20, after it had been tested with results exceeding the guarantee of 110-mill. feet pounds per 100 pounds of anthracite coal, and had been finally accepted on the part of the city. Oil has been introduced as fuel in this station during the year in the way of experiment, and the results have been so satisfactory, both as to economy and to abatement of the smoke nuisance, that arrangements are being made for consumption of oil on a large scale. The station will have an oil-pipe line of its own. This station is about to receive an addition, which will be treated of later on.

LAKE VIEW PUMPING STATION.

At the *Lake View Pumping Station*, which is in charge of Mr. F. D. Parker, excessively low lake levels during November and December (the mean for those two months was -0.7 , while the mean for June and July was $+0.5$) compelled the entire stoppage of the only large modern engine of that station (a 12-mill. Gaskill) for six weeks at a time; and the North Side pumping station was frequently drawn upon for large quantities of water by the Lake View district, through a 16-inch pipe on Halsted street between Fullerton and Wrightwood avenues, which had been laid previously in order to connect intimately the pipe system of the old city with that of the Lake View district. An important improvement in the system of in-take pipes, which is described under the head of "Construction," was effected during this period. The plant has been put into good order for summer service, but there still remains this serious deficiency—that if for any reason the large engine (12-mill. Gaskill) must be stopped, the two small engines (5-mill. Worthington and 2-mill. Vergennes) are entirely inadequate to the needs of the district. An additional large engine is imperatively required.

WASHINGTON HEIGHTS PUMPING STATION.

The capacity of the small *Pumping Station at Washington Heights*, the only one which does not draw its supply from Lake Michigan (Mr. George M. Inman in charge), is fast becoming insufficient for the needs of its district. It can be enlarged easily and at small expense, the flow of the artesian well being abundant.

Generally speaking, the excessively low lake level during the year (the annual mean was only about city datum) caused a great deal of inconvenience and expense throughout the system. All the engines had to work against an increased suction-head, and at the North Side station the "53" and "57" were frequently out of water altogether, and the "67" often had only a few inches of water above the suction openings.

The Lake View station suffered most, as has been hinted above, and will be further explained later on.

TWO-MILE CRIB.

A serious accident occurred at the *Two-Mile Crib* shortly after the close of the year. Early on the morning of January 21, 1892, the ports admitting the water through the crib to the inner well became choked with ice, and for the greater part of the day the North Side, West Side and Central pumping stations received a very small amount of water, only sufficient to enable them to fill the pipe system with a flow without pressure. The arrangement of the breakwater surrounding the crib, with its single opening on the west traversed by a fixed surface screen only, must be considered as having been proved faulty by this its first serious test and should be changed during the coming summer. The water famine was aggravated by the fact that the submerged pipe in-take for Lake View station and the submerged crib in-take for the Sixty-eighth street station had become choked with ice simultaneously with the Two-mile crib; the flow at the Sixty-eighth street crib, however, freed itself in a short time.

"B"—CONSTRUCTION.

LAKE VIEW TUNNEL.

The *Lake View Tunnel*, in charge of Mr. H. C. Leach, has been pushed out to a distance of 5,312.8 feet from shore, 1,584 feet of which was constructed during the year. The excavation has been in limestone rock throughout, and the work has been slow as well as expensive in consequence. It is contemplated to raise the grade above the rock, and action looking towards this end is being taken.

LAKE VIEW CRIB.

The *Crib*, 10,000 feet from shore, has been set and finished, but work on the in-take shaft inside of the crib has not yet been begun. The contractors are Shailer & Schnigla.

NEW STEEL INLET PIPE.

Owing to abnormally low lake level the in-take pipes for the Lake View pumping station, four in number and from sixteen to thirty inches in

diameter, the shore ends of all of which were not laid deep enough for such low stages of water, ran almost dry at times during the latter part of the year.

To remedy this, the shore end of the largest of them, thirty inches in diameter, which consisted of a wooden box thirty inches square with its top one foot above city datum, was exchanged for a *steel pipe* of the same construction as the lake end, with its top six inches below city datum, and since December 24, when the water was admitted through the new pipe for the first time, there have only been rare shortages of supply, caused by anchor ice. The contractors were Shailer & Schnigla.

The blow-pipe which had been found so efficient against anchor ice in the last winter had been destroyed during a violent storm just preceding the period of severely cold weather in the beginning of 1892, and it has only been possible to replace it late in January, since which time there has been no further trouble from anchor ice up to date of present writing (end of February, 1892).

NORTH SHORE INLET EXTENSION.

The *North Shore Inlet Extension* was constructed almost entirely during the year 1891, although the important and extremely difficult task of connecting the new with the old work was not finished before February 1, 1892.

The improvement consists of about 3,000 feet of 7-foot tunnel, and a new crib containing an in-take shaft as well as a working shaft (the latter for the purposes of future extension) and located 4,500 feet from shore at the northwestern extremity of the exterior United States breakwater, a little to the north of the line of the old 5-foot and 7-foot tunnels, between the North Side pumping station and the Two-mile crib.

After divers methods to connect the new work with the old shore in-take shaft, 1,500 feet from shore, had failed, on account of the leaky condition of this shaft with its surrounding crib, it became necessary to fill the old shaft entirely with concrete, in bags, and to construct a 7-foot by-pass curving around it from the new tunnel into the old one, to which end the latter had to be pumped dry. This improved shore inlet is now ready for use. The contractors were Lydon & Drews.

The engineers in charge were successively Messrs. W. D. Hotchkiss, Francis F. Hopp and John Ericson, the latter since the middle of January, 1892. Mr. D. H. Welch, the engineer in charge of the North Side pumping station, also devoted a great deal of time and attention to this new work, especially to its connection with the old work.

JEFFERSON STREET TUNNEL.

In order to unite the old system of water tunnels, dependent on the Two-mile crib, with the new system now in process of construction, which will be dependent on the Four-mile crib, into a common whole the parts of

which will be fit to act and re-act on each other, a 6-foot tunnel was built on *Jefferson street*, from a shaft over the old 7-foot land tunnel at the corner of Van Buren street to a shaft sunk for the purpose just beyond the new 7-foot land tunnel at the corner of Harrison street. This tunnel is about 625 feet long, and can be closed against flow in either direction by a double-faced gate moving in a shaft of its own. The engineer in charge was Mr. W. D. Hotchkiss; the contractors were Shailer & Schniglau.

The gate is now down and closes the new land tunnel, as yet empty, against the flow in the old tunnel. In addition to this connection between the two tunnel systems there is an older and smaller one on Desplaines street, at the terminal shaft of the new 7-foot land tunnel, which shaft is distant only about thirty feet from a 3-foot fire-shaft sitting on the old tunnel, and is connected with this fire-shaft by a tunnel tapering from five to two and one-half feet diameter, through which water for one engine at the Central pumping station has been drawn for some time.

That station is connected directly with the Desplaines street shaft by means of a 6-foot tunnel, about 500 feet long.

FOUR-MILE TUNNEL.

The *Four-mile Tunnel* (contractor, Andrew Onderdonk,) made satisfactory progress during the past year.

The 8-foot four-mile heading was begun January 12. The use of compressed air was introduced in all headings—in the two 6-foot shore-headings on March 20, in the 8-foot four-mile on June 20 and in a 6-foot tunnel-heading west from the $2\frac{1}{2}$ -mile shaft on August 1. This latter tunnel was located on the level of the shore-heading after it had been found impossible to continue work on the system begun previously on a level twenty feet lower, owing to the demoralization of the soil surrounding the $2\frac{1}{2}$ -mile shaft, aggravated, most likely, by the use of compressed air in the higher shore-headings. This air probably escaped in part at the lower level through communicating water-bearing veins.

After having constructed forty-seven feet of this upper-level tunnel under great difficulties, the contractor chose to suspend work on the $2\frac{1}{2}$ -mile point entirely.

The alignment of the main route was changed by the city so as to curve around to the north of the $2\frac{1}{2}$ -mile point at a distance of about 350 feet.

The two 6-foot headings were united into a single 8-foot heading, of which latter 282.4 feet had been finished at the end of the year. This left the face of the shore-heading at a distance of only 192.4 feet from a point due north of the centre of the $2\frac{1}{2}$ -mile shaft. Three thousand seven hundred and seventy-two and three-tenths feet of 8-foot tunnel was constructed from the 4-mile point landwards, and the distance between the two faces at the end of the year was 4,339 feet.

At the end of the preceding year the mean distance of the faces of the two 6-foot shore-headings from the Four-mile crib (tunneling not having yet begun from the latter) was 12,464 feet. Thus the year 1891 brought with it an effective progress of 8,125 feet in two headings, or a mean effective progress of 4,062.5 feet per heading.

The rate of progress stipulated in the contract for the section between the intermediate and the outer cribs is 1,800 feet per heading per annum.

Portions of the bottom arch in the two 6-foot shore-headings, constructed in especially soft and wet soil before the introduction of compressed air, were marked and recorded at once after construction as requiring repairs or reconstruction before final acceptance. Such repairs or partial reconstruction of a long, circular, brick tunnel can be done much more quickly and thoroughly when ample time is allowed for the masonry as a whole to harden and become impervious, and for the surrounding soft and wet soil to settle and dry out by contact with the tunnel arch.

The engineers in charge have been successively Messrs. Wm. A. Lydon, J. C. Des Granges and Francis F. Hopp; the latter since the middle of January, 1892.

PARK ROW BY-PASS.

In order to enable the new Fourteenth street pumping station (see below) to take water in advance of the completion of the Four-mile tunnel, and to do this without depriving the contractor of the use of his shore-shaft at Park Row, which is on the line of the tunnel connection between the station named and the Two-mile crib, a *by-pass tunnel* was constructed around *Park Row shaft*, connecting the 7-foot tunnel north of it with the 8-foot tunnel south of it, and the openings of the two tunnels into the shaft were closed by bulkheads. The by-pass was constructed as a standard 6-foot tunnel, and curves around the shaft at a distance of twenty-five feet.

The water was turned on, but the amount of percolation into the Park Row shaft was such as to interfere with its usefulness, and showed that the standard mode of construction (two rings of hand-made brick and mortar made of equal proportions of Utica Blackball cement and sand) does not meet the requirements of the rather unusual case of a tunnel under a head of fifty to sixty feet at a distance of twenty-five feet from an empty shaft with which it is connected by a continuous body of brick work of the same character.

One of the bulkheads was removed, therefore, and the by-pass is now being lined with three-sixteenth-inch steel joined to the brick work by Portland cement grout put in under pressure.

The by-pass is 196 feet long.

PECK COURT WATER-GATE.

In order that there may be no necessity for pumping dry again the *entire system* of new land tunnels, when after completion of the Four-mile

tunnel the bulkheads above mentioned must be removed for admittance of the water from the Four-mile crib, a 6-foot by 8-foot gate is being placed in *Peck Court shaft*, only 1,200 feet north of Park Row shaft, into the eye of the 7-foot tunnel connecting the two shafts.

FOURTEENTH STREET PUMPING STATION.

The *Fourteenth street Pumping Station*, with its three "Reynolds" triple expansion, 15-mill. engines, the exact counterparts of the two engines at the Central station, has been completed, and can be put into operation when water is sent down through the new land tunnel system. Portions of the finish in the interior and on the machinery, such as painting, railings, covering of steam channels and incandescent electric light system, remain to be done.

The steam end of the third engine was erected after January 1, 1892.

THIRTY-FIFTH STREET AND ASHLAND AVENUE WATER-PIPE TUNNELS.

In order to let the Stock Yards and the district surrounding it have an ample share in the benefits to be conferred by the Fourteenth street pumping station, a line of 48-inch, 36-inch and 24-inch pipe will lead from the station in a southerly and westerly direction to points near the corner of Ashland avenue and Forty-third street, where it will connect with two 16-inch pipes which are part of a line of large pipe at present supplying the Stock Yards with water from the Sixty-eighth-street pumping station. The new line crosses the Chicago river twice: first the South fork, at Thirty-fifth street, and afterward the West arm of the South fork at *Ashland avenue*.

Tunnels have been constructed in both these places to carry the 36-inch pipe under the river.

Each tunnel is about 250 feet long and has a 10-foot shaft at either end. The top and the sides of the clear cross section are parts of a circle of ten feet two inches diameter, and the bottom is a flat arch of 7-inch rise, making the greatest width ten feet two inches and the greatest height seven feet two and one-half inches. This affords, in case of a break, space enough to introduce a 30-inch pipe to replace a broken one without disturbing the rest. The grade is about forty-two feet below city datum, so as to leave a sufficient thickness of soil between the tunnel and the river.

The excavation for the Thirty-fifth-street tunnel was entirely in limestone rock; seams were few and not troublesome. The lining consists of two rings of brick. The trimming and lining of the tunnel proper was not begun until the excavation had been completed in the rough from one end to the other. A portion of the lining of the tunnel remains to be done, and the brick work of the shafts, which has suffered severely by the blasting, will be reconstructed.

The contractor is John O'Laughlin.

The excavation for the Ashland avenue tunnel was in hard clay. There was rock in the bottom, however, for some distance at the south end.

The lining consists of four rings of brick.

The shafts and tunnel are finished, and the pipe is being laid by this Department.

The contractors were Shailer & Schniglau.

The engineers in charge of both tunnels were successively Mr. Irvine Watson and Mr. John Ericson; the latter since the middle of January, 1892.

ADDITION TO SIXTY-EIGHTH STREET PUMPING STATION.

The World's Columbian Exposition, during construction and while it is open, depends for its supply of potable water on the Sixty-eighth street pumping station.

An arrangement has therefore been made under which the city of Chicago places two *additional engines of 12 mill. each* at the station in advance of ordinary needs. The output of these engines is to be entirely at the service of the Exposition while it is open, and the Exposition Company in return advances the funds needed for the new plant, to be repaid after the close of the Exposition.

The erection of these two engines involved the construction of the necessary buildings and pipeage, and besides, for the purpose of insuring proper conditions of flow, of an additional land tunnel of five feet diameter from the shore shaft to the station, the present land tunnel being only five feet in diameter while the lake tunnel is six feet in diameter.

The two 12 mill. engines are of the well known "Gaskill" type. They are up in the rough by this time (end of February, 1892), the foundations having been completed in the early winter of 1891.

For a rational development of the station, which should be a single, compact building, sufficient to house an engine capacity of seventy-two mill. in the aggregate (the limit of the 6-foot lake tunnel), it is required that the old "Lake" building should be abandoned and that the only modern, high-duty engine it contains (a Gaskill 12 mill.) should be transferred to the enlarged Hyde Park building.

The way has been paved for this change by making the addition now being constructed on the south side of the Hyde Park building large enough to contain three 12 mill. Gaskills, and by putting in a third foundation which will receive the "Lake" Gaskill when it is ready to be moved.

The walls of the new building are up now (end of February, 1892), and so are the trusses for the iron roofs for the engine and boiler rooms. The roofing on these will consist of corrugated iron (overlaid, in the case of the engine room, by slate on a concrete bed), and will be commenced shortly; the coal room has had its wooden shed roof for some time.

The erection of the engines has been going on even during the severest weather, latterly under protection of a temporary tar and gravel roof, resting on trussed beams supported by posts.

There had to be a temporary floor, too; the permanent floor of steel beams and brick arches will not be put in for some time in order not to interfere with the work on the engines.

As soon as the boiler room is roofed in, the boilers, six in number, in batteries of two each, will be founded and set.

The new 5-foot land tunnel, about 1,100 feet long, with three shafts at the west end which will serve as wet wells for the three engines, and with one shaft at the east end close to the shore shaft of the lake tunnel, is finished, with the exception of the connections with the existing system at either end.

These connections are to be made under water and will be undertaken at the first approach of milder weather.

The contract for the furnishing of the special pipeage is about to be let. Mr. D. H. Hayes is the contractor for the building.

Lydon and Drews were the contractors for the engine foundations.

The Holly Manufacturing Company are the contractors for the machinery, and the Mt. Vernon Bridge Company for the engine house and boiler house roofs.

Mr. William Klewer is the architect in charge, and Mr. Francis F. Hopp has been succeeded as engineer in charge by Mr. Ericson.

Mr. A. O. Parker, the engineer in charge of the Sixty-eighth street pumping station, also devotes a great deal of attention to the construction of the addition.

Yours very respectfully,

BERNHARD FEIND,

First Assistant City Engineer.

REPORT
OF THE
Bureau of Water Rates

CITY OF CHICAGO

WATER OFFICE REPORT.

CHICAGO, February 23, 1892.

J. FRANK ALDRICH, Esq.,

Commissioner of Public Works.

DEAR SIR:—I herewith submit Annual Report of the Water Office for the year ending December 31, 1891:

In assuming the duties and responsibilities of this Department the first day of May last (and on which day Henry T. Carr was appointed Chief Clerk), I found, after a careful investigation, an accumulation of back taxes on books, many of them unjust and uncollectible. (For example: Application had been made to build, giving location, legal description and date of completion; the Assessor brings assessment on book from said date; the applicant in the meantime fails to build for some reason and does not report the same to this Department; the result is taxes accumulate against said premises, and this Department has no intimation that building is not erected until annual inspection is made. We have, however, inaugurated a system whereby this "mistaken" assessment will be avoided in the future.) In order to secure settlement in some cases rebates were allowed.

Total receipts for the year are \$2,331,286.20, as against \$2,149,595.79 collected the preceding year, showing an increase of \$181,690.41, due to the persistent efforts of this Department in collecting current and back taxes.

After due consideration, I have deemed it advisable to make our assessment books to collect from for two years instead of one year as heretofore, thereby saving the city a large and unnecessary expense.

A re-inspection of the whole city of Chicago is being completed, which will show amount of water rates of every building in the city, and which will increase the revenue of this Department largely the ensuing year.

The Meter Collection Department has been placed in charge of Mr. F. A. Brokoski, and by him thoroughly reorganized, and the method of book-keeping and collection of bills greatly improved upon. A large number of places avoided paying any taxes for the past two years, caused by meters being removed, and not brought on books under frontage assessments which should have been done. Also a great number of places covered by meter

have been paying less per annum than if under frontage rates. In all of these cases the difference has been added to equal frontage rates; bills have been rendered, and to a great extent settled. This system, if properly conducted in the future, will increase the revenue of the Meter Department thousands of dollars annually.

In submitting the reports of Mr. Thomas Pattison, Assessor, and Mr. Henry G. Naper, Permit Clerk, I respectfully direct your attention to their recommendations with reference to room, light and ventilation, and suggest that some alterations be made to relieve said departments, which are of necessity together. In moving into their present quarters, some years ago, the work to be performed by said departments was less than half what it is to-day, and they at that time considered the quarters inadequate. The work of both departments for the past year is the greatest in the history of the city.

In closing I beg leave to return you my sincere thanks for your kind appreciation and the many courtesies extended, as well as the good will manifested by the heads of the different bureaus under your supervision.

Very respectfully,

WILLIAM LORIMER,

Superintendent of Water Department.

Following is a recapitulated statement of the assessments and collections of the Water Office for the year 1891:

Dr.

Delinquent rates January 1, 1891.....	\$ 225,795 67
Assessment May 1, 1891.....	1,797,028 00
Assessor's increase checks.....	168,772 50
Meter rates.....	717,068 05
Meter repair.....	19,824 31
Water permits.....	39,732 60
Assessor's miscellaneous.....	22,794 37
	<hr/>
	\$2,991,015 50

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Amount collected January 1, 1891, to January 1, 1892.....	\$ 2,331,286 20
Assessor's decrease checks for municipal and public buildings.....	22,691 75
Religious, educational and charitable institutions.....	25,542 15
Removals, changes to meter control and other causes.....	127,598 47
Order of City Council.....	176 50
Discounts.....	206,802 71
Balance uncollected January 1, 1892.....	276,917 72
	<hr/>
	\$2,991,015 50

Table showing the monthly collections from January 1, 1891, to January 1, 1892.

1890.	By Assessment.	Assessor's Miscellaneous.	Water Permits.	Meter.	Meter Repair.	TOTAL.
January	\$ 59,053 92	\$ 73 86	\$1,835 00	\$64,539 44	\$1,211 36	\$126,713 58
February	37,586 11	16 25	1,813 10	54,092 81	873 66	94,381 93
March	23,551 69	39 24	3,217 15	54,153 64	1,038 78	82,000 50
April	27,377 54	155 00	2,787 70	63,716 96	1,445 80	95,483 00
May	348,882 83	1,924 53	4,018 80	56,329 95	2,087 78	413,243 89
June	241,174 54	5,846 16	4,635 80	52,563 71	1,812 26	306,032 47
July	86,377 45	3,355 55	4,536 60	66,435 40	1,922 22	162,627 22
August	43,904 26	3,784 01	4,074 90	55,207 51	1,891 23	108,861 91
September	33,344 17	2,431 61	3,732 90	60,180 97	1,699 74	101,389 39
October	47,031 97	2,076 28	4,988 40	62,764 88	2,709 19	119,570 72
November	349,575 86	2,936 02	2,305 75	55,759 59	1,344 59	411,921 81
December	234,006 53	155 86	1,786 50	71,323 19	1,787 70	309,059 78
TOTALS	\$1,531,866 87	\$22,794 37	\$39,732 60	\$717,068 05	\$19,824 31	\$2,331,286 20

The following table shows the work done by the leak and waste, and shut-off forces :

SHUT-OFF AND LEAK AND WASTE FORCES.

MONTHS.	Bills Delivered.	Shut-off Notices Delivered.	Shut-off for Unpaid Taxes.	Notices of Leak and Waste.	Shut-off for Leak and Waste.	Complaints Investigated.	Hose Reported.	Water Turned On.
January	9,037	8,233	99	88	42	99	.....	91
February	7,462	7,282	292	48	45	87	.....	82
March	980	5,892	268	23	34	114	.....	132
April	6,790	1,500	367	35	52	113	.....	228
May	14,862	84	86	32	69	75	.....	172
June	8,753	3,460	23	56	48	186	486	88
July	9,786	8,320	186	83	45	104	1,230	110
August	6,453	7,830	304	46	28	226	1,696	128
September	1,089	1,838	295	60	44	139	698	156
October	8,952	856	358	77	32	203	104	123
November	5,920	320	88	45	59	146	.....	84
December	9,989	2,880	45	40	76	198	.....	76
TOTAL	90,073	47,995	2,411	633	574	1,690	4,214	1,470

The following is a tabulated statement of the work of the Inspector's force for the year 1891 :

BUILDINGS EXAMINED.

1891.	One-Story.	Two-Story.	Three-Story.	Four-Story.	Five-Story.	Six-Story.	Seven-Story.	Eight-Story.	Nine-Story.	Special Examination Made.
January.....	1,936	2,102	936	437	93	24	10	1	....	486
February.....	1,543	2,164	338	291	47	.....	17	....	....	310
March.....	1,329	1,829	267	236	69	18	.....	7	....	479
April.....	1,160	1,712	600	327	16	63	29	....	....	783
May.....	1,331	2,174	713	390	104	91	.....	3	....	1,841
June.....	1,546	3,172	880	359	187	86	2	19	....	1,097
July.....	2,947	3,998	1,739	671	81	10	.....	....	1	493
August.....	2,152	4,068	2,108	563	13	2	41	1	....	333
September.....	3,675	4,711	2,513	588	277	139	63	8	....	360
October.....	2,160	3,163	865	519	213	.....	.....	.....	....	386
November.....	1,823	2,788	617	293	11	1	.....	6	....	934
December.....	1,478	2,649	1,198	582	3	.....	.....	1	..	691
TOTAL.....	23,080	34,470	12,774	5,256	1,114	434	162	46	1	8,193

WATER ASSESSOR'S REPORT.

CHICAGO, January 1, 1892.

W. LORIMER,

Superintendent.

DEAR SIR:—I have the honor to submit to you my annual report of work done in the Water Assessor's sub-department of the Water Office during the municipal fiscal year ending December 31, 1891, as follows:

1. Showing the amount of assessments for water on division books in districts one to five, inclusive, as by last annual report on January 1, 1891, with the increases and decreases up to and including April 30, 1891, being the close of the water revenue year.

2. The amount of miscellaneous assessments, for street sprinkling, etc., made during the same period as the foregoing, showing the amount collected and the balance uncollected on the thirtieth day of April, 1891.

3. Showing the amount assessed and on books in districts one to five, inclusive, on the first day of May, 1891, for the *year* ending April 30, 1892, with the increases and decreases made from May 1, 1891, to December 31, 1891, being the end of the municipal fiscal year.

4. The amount of miscellaneous assessments made during the last-named period, showing the amount collected and the balance remaining uncollected on December 31, 1891.

5. The amount assessed and on books in the Sixth District, as per last annual report on January 1, 1891, together with the increases and decreases to April 30, 1891, as reported by Jos. Hardacre, Superintendent of Sixth District.

6. The amount assessed and on books in the Sixth District on May 1, 1891, for the *year* ending April 30, 1892, with the increases and decreases to December 31, 1891, being the close of the municipal fiscal year, as reported by Jos. Hardacre, aforesaid.

7. The amount on book of Seventh District on the first day of January, 1891, as per last annual report, together with the increases and decreases to April 30, 1891, being the close of the water revenue year, as reported by W. C. Lawson, Superintendent of said district.

8. The amount on books of Seventh District on the first day of May, 1891, for the year ending April 30, 1892, with the increases and decreases from May 1, 1891, to December 31, 1891, being the close of the municipal fiscal year, as reported by W. C. Lawson, Superintendent of said district.

9. A detailed statement of streets and number of water-service pipes, put in by contract during the year 1891, showing the aggregate cost of contract; also the amount of Assessor's cost as covered into the water fund.

10. Is a detailed statement of streets, ordered by the City Council to be improved, with estimated number and cost of water-service pipes, as returned by me to the Superintendent of Special Assessments, during the year ending December 31, 1891.

FIRST TO FIFTH DISTRICTS, INCLUSIVE.

Amount of water assessments on division book, as per last report, on January 1, 1891..... \$1,376,029 50

Amount of increase checks from January 1, 1891, to April 30, 1891, numbers 2,074 to 2,564.	Amount of decrease checks from January 1, 1891, to April 30, 1891, numbers 1,325 to 1,613.
January, 1891.....\$ 1,049 07	January, 1891.....\$ 6,881 50
February, 1891.... 2,289 12	February, 1891.... 3,960 49
March, 1891..... 1,935 01	March, 1891..... 4,432 46
April, 1891..... 1,874 47	April, 1891..... 1,989 13
Total.....\$ 8,047 67	Total.....\$17,263 78

Decrease.....\$17,263 78

Increase..... 8,047 67

Net decrease..... 9,216 11

Total amount assessed to April 30, 1891.....\$1,366,813 39

MISCELLANEOUS ASSESSMENTS.

January 1, 1891, to April 30, 1891.

Uncollected January 1, 1891.....\$ 385 94

INCREASE.

January, 1891.....	\$ 508 86
February, 1891.....	24 25
March, 1891.....	54 24
April, 1891.....	188 00
Total increase from January 1, 1891, to April 30, 1891.....	775 35
Total.....	<u>\$1,161 29</u>

WATER OFFICE REPORT.

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DECREASE.

January, 1891.....	
February, 1891.....	
March, 1891.....	
April, 1891.....	
Total decrease, January 1 to April 30, 1891.....	
Amount collected, January 1 to April 30, 1891.....	\$ 284 85
Uncollected, April 30, 1891.....	876 94
Total.....	<u>\$1,161 29</u>

Amount of assessment for water, from May 1, 1891, to April 30, 1892,
exclusive of meters..... \$1,489,944 16

Increase from May 1, 1891, to December 31, 1891. Checks numbers 2 to 2,388.	Decrease from May 1, 1891, to December 31, 1891. Checks numbers 1 to 1,389.
May, 1891.....\$ 27,581 41	May, 1891.....\$ 23,588 18
June, 1891..... 11,908 19	June, 1891..... 10,575 97
July, 1891..... 19,775 80	July, 1891..... 33,496 58
August, 1891..... 12,448 69	August, 1891..... 19,659 88
September, 1891.. 10,812 29	September, 1891.. 10,522 86
October, 1891.... 15,728 55	October, 1891.... 7,098 19
November, 1891.. 6,219 32	November, 1891.. 8,094 91
December, 1891.. 3,780 81	December, 1891.. 18,914 78
Total.....\$108,204 56	Total.....\$126,945 70

Decrease.....	\$126,945 70
Increase.....	108,204 56
Total decrease.....	<u>18,741 14</u>

Total assessment from May 1, 1891, to December 31, 1891.. \$1,471,208 02

MISCELLANEOUS ASSESSMENTS.

May 1, 1891, to December 31, 1891.

Uncollected May 1, 1891.....\$ 867 94

INCREASE.

May, 1891.....	\$ 2,105 08
June, 1891....	8,622 88
July, 1891.....	8,289 98
August, 1891.....	3,766 92
September, 1891.....	2,506 60
October, 1891..	2,377 11
November, 1891.....	188 52
December, 1891.....	118 61
Total increase from May 1, 1891, to December 31, 1891.....	22,870 55
Total.....	<u>\$23,747 49</u>

DECREASE.

May, 1891	\$ 76 67	
June, 1891	273 50	
July, 1891	0 00	
August, 1891	26 66	
September, 1891	19 99	
October, 1891	27 50	
November, 1891	0 00	
December, 1891	50 00	
Total decrease, May 1 to December 31, 1891		\$ 474 32
Total collections, May 1 to December 31, 1891		22,510 02
Balance uncollected, December 31, 1891		763 15
Total		<u>\$23,747 49</u>

SIXTH DISTRICT.

As reported by JOS. HARDACRE, Superintendent.

Amount of water assessments on books January 1, 1891, as per last report... \$185,633 85

INCREASE.		DECREASE.	
January, 1891	\$ 775 71	January, 1891	\$ 297 92
February, 1891	206 50	February, 1891	207 95
March, 1891	59 96	March, 1891	251 28
April, 1891	814 15	April, 1891	484 58
Total	\$1,856 32	Total	\$1,241 73

Increase \$1,856 32 |Decrease 1,241 73 |Total increase 614 59 |Total amount assessed from May 1, 1890, to April 30, 1891..... \$186,248 44Amount on books from May 1, 1891, to April 30, 1892..... \$174,816 23

INCREASE.		DECREASE.	
May, 1891	\$ 3,339 23	May, 1891	\$2,319 29
June, 1891	2,329 22	June, 1891	2,416 33
July, 1891	2,489 21	July, 1891	746 10
August, 1891	4,046 79	August, 1891	337 40
September, 1891	4,884 53	September, 1891	593 34
October, 1891	3,055 67	October, 1891	446 53
November, 1891	1,293 12	November, 1891	985 06
December, 1891	1,403 13	December, 1891	4,095 92
Total	\$22,840 90	Total	\$11,939 97

Increase \$22,840 90 |Decrease 11,939 97 |Total increase 10,900 93 |Total on books December 31, 1891 \$185,717 16 |

SEVENTH DISTRICT.

As reported by W. C. LAWSON, Superintendent.

Amount of water assessments on books, as per last report, Jan. 1, 1891.... \$183,228 30

INCREASE.		DECREASE.	
January, 1891.....	\$ 674 90	January, 1891.....	\$ 465 56
February, 1891.....	708 91	February, 1891.....	1,420 00
March, 1891.....	324 85	March, 1891.....	2,005 85
April, 1891.....	1,692 04	April, 1891.....	1,489 39
Total.....	\$3,400 70	Total.....	\$5,380 80
Decrease.....		\$5,380 80	
Increase.....		3,400 70	
Total decrease.....		1,980 10	

Total amount assessed from May 1, 1890, to April 30, 1891..... \$131,248 20

Amount on book from May 1, 1891, to April 30, 1892..... \$147,277 07

INCREASE.		DECREASE.	
May, 1891.....	\$ 2,823 07	May, 1891.....	\$ 1,305 49
June, 1891.....	5,936 39	June, 1891.....	1,389 19
July, 1891.....	2,299 99	July, 1891.....	616 09
August, 1891.....	1,729 90	August, 1891.....	651 25
September, 1891..	4,925 41	September, 1891..	1,686 73
October, 1891.....	2,144 75	October, 1891.....	1,757 79
November, 1891..	2,699 07	November, 1891..	1,198 88
December, 1891..	1,863 77	December, 1891..	4,823 92
Total.....	\$24,422 35	Total.....	\$13,429 34
Increase.....		\$22,422 35	
Decrease.....		13,429 34	
Total increase.....		10,993 01	

Total assessment from May 1, 1891, to December 31, 1891..... \$158,270 08

SUMMARY, EXCLUSIVE OF METERS.

First to Fifth Districts, assessed from May 1 to December 31, 1891.....\$1,471,203 02
 Sixth District, assessed from May 1 to December 31, 1891..... 185,717 16
 Seventh District, assessed from May 1 to December 31, 1891..... 158,270 08
 Total.....\$1,815,190 26

Amount rebated by ordinance of November 21, 1884, and July 30, 1885,
 during the year ending December 31, 1891, in districts 1 to 7 inclusive :

Religious, charitable and educational institutions.....	\$25,542 15
Municipal and public schools.....	22,691 75
By special order of Council, September 29, 1890.....	\$64 50
By special order of Council, February 2, 1891.....	35 50
By special order of Council, February 24, 1891.....	15 00
By special order of Council, June 8, 1891.....	61 50
	176 50
Total.....	\$48,410 40

The above rebates are included in the general decreases embraced in
 the foregoing report.

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT, AND THE ASSESSOR'S COST ON EACH STREET.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Addison avenue.....	Clark.....	Lake Michigan.....	83	\$1,854 32	\$156 00
Adams.....	Kedzie avenue.....	Central Park avenue.....	160	2,619 20	240 00
Aldine.....	Evansston avenue.....	Lake Michigan.....	56	869 68	84 00
Ashland avenue.....	Fifty-fifth.....	Fifty-ninth.....	155	2,780 70	232 50
Albany avenue.....	Ogden avenue.....	Douglas Park boulevard.....	41	615 82	61 50
Addison avenue.....	Ashland avenue.....	Clark.....	140	2,392 60	210 00
Armitage avenue.....	California avenue.....	Kedzie avenue.....	54	793 26	81 00
Armour avenue.....	Egan avenue.....	Root.....	10	150 00	15 00
Asylum place.....	Elston avenue.....	Leavitt.....	26	328 12	39 00
Bonney avenue.....	Ogden avenue.....	Twenty-sixth.....	141	2,096 67	211 50
Bonfield.....	Archer avenue.....	Hickory.....	7	126 00	0 00
Baltimore avenue.....	Commercial avenue.....	Eighty-third.....	.....	.....	.....
Bond avenue.....	Seventy-ninth.....	Eightieth.....	42	623 70	63 00
Belmont avenue.....	Western avenue.....	North branch of Chicago river.....	60	886 90	90 00
Colorado avenue.....	Central Park avenue.....	Boulevard.....	32	504 30	48 00
Chicago avenue.....	Leavitt.....	Kedzie avenue.....	124	3,396 68	185 80
Commercial avenue.....	So. Chicago avenue.....	Ninety-sixth.....	35	676 90	52 50
Cornelia.....	Ninety-sixth.....	Hundredth.....	78	1,648 92	117 00
Colorado avenue.....	Halsted.....	Lake Michigan.....	50	827 00	75 00
Carroll avenue.....	Jackson.....	Central Park avenue.....	87	1,324 14	130 50
Congress.....	Halsted.....	May.....	14	294 14	21 00
Coulter.....	Rockwell.....	Albany avenue.....	74	1,203 62	111 00
Chestnut avenue.....	Robey.....	Hoyne avenue.....	23	366 08	33 00
Central Park avenue.....	Wallace.....	Halsted.....	53	795 00	79 50
Central Park avenue.....	Twenty-second.....	Twenty-sixth.....	119	1,792 14	178 50
South Chicago avenue.....	Madison.....	Harrison.....	93	1,381 98	139 50
Columbia place.....	Commercial avenue.....	Ninety-second.....	23	608 30	0 00
Calumet avenue.....	Lake.....	Kinzie.....	24	372 48	36 00
Dudley.....	Thirty-seventh.....	Thirty-eighth.....	25	387 75	37 50
Drexel avenue.....	Hervey.....	Asylum place.....	12	201 36	18 00
Drake avenue.....	Fifty-fifth.....	Fifty-ninth.....	185	2,995 15	277 50
Dunning.....	Central Park boulevard.....	Ohio.....	27	408 50	40 50
Dickey.....	Racine avenue.....	Southport avenue.....	15	279 45	22 50
Emerald avenue.....	Sixty-ninth.....	Seventy-second.....	88	1,278 64	132 00
	Egan avenue.....	Forty-seventh.....	63	979 02	94 50

Eastwood avenue	Sheffield avenue	Halsted	51	801 72	76 50
Egan avenue	Wentworth avenue	Halsted	106	1,777 63	159 00
Elston avenue	Diversey avenue	Snow	131	1,784 75	181 50
Ellis avenue	Sixtieth	Sixty-third	133	2,054 10	184 50
Edbrooke place	Western avenue	Powell avenue	3	49 38	4 50
Elston avenue	Diversey avenue	Belmont avenue	206	3,475 22	309 00
Eighteenth place	Brown	May	5	90 00	0 00
Eighty-eighth	Superior avenue	Mackinaw avenue	10	189 20	15 00
Ellis avenue	Fifty-fifth	Fifty-sixth	22	363 44	23 00
Ellis avenue	Egan avenue	Forty-third	69	957 03	103 50
Forty-fourth	Cottage Grove avenue	St. Lawrence avenue	7	111 79	10 50
Forty-seventh	Halsted	Paulina	95	1,454 45	142 50
Fullerton avenue	Milwaukee avenue	Elston avenue	230	4,517 20	345 00
Fifty-fifth	Lake avenue	Cottage Grove avenue	97	1,578 19	145 50
Forty-fourth	Drexel boulevard	Ellis avenue	4	76 00	6 00
Fullerton avenue	Milwaukee avenue	Kedzie avenue	96	2,040 00	144 00
Fifty-fourth	Drexel boulevard	Cottage Grove avenue	8	117 28	12 00
Fifty-ninth	State	South Park avenue	27	419 85	40 50
Fifty-seventh	Cottage Grove avenue	Woodlawn avenue	71	1,018 85	106 50
Fifty-sixth	Wright	Wallace	34	508 30	51 00
Forty-sixth	State	Drexel boulevard	105	1,600 20	157 50
Forty-seventh	Archer avenue	Western avenue	No Main.		
Fisk	Twenty-ninth	Twenty-second	8	144 00	4 00
Fifty-first	Drexel boulevard	East End avenue	111	1,651 68	166 50
Frankfort	Robey	Hoyne avenue	19	322 43	28 50
Forty-fifth	Wentworth avenue	Stewart avenue	11	220 00	12 76
Frank	Diversey avenue	Surf	20	355 40	30 00
Forty-fifth	State	Grand boulevard	24	379 44	36 00
Forrest avenue	Fullerton avenue	Humboldt boulevard	14	221 90	21 00
Fairview	Fullerton avenue	Humboldt boulevard	27	416 61	40 50
Forty-second	Drexel boulevard	Oakenwald avenue	32	451 84	47 00
Forty-third	State	Halsted	65	1,045 20	97 50
Forestville avenue	Forty-eighth	Fifty-first	119	1,710 03	178 50
Forty-fifth	Wallace	Stewart avenue	6	81 18	9 00
Grand avenue	Chicago avenue	Crawford avenue	403	6,855 03	604 50
Greenwood avenue	Sixtieth	Sixty-third	113	1,859 98	169 50
Greenwich	Robey	Leavitt	14	231 42	21 00
Grand avenue	Western avenue	Chicago avenue	103	2,012 46	153 00
Hamlin avenue	Kinzie	Chicago avenue	75	1,341 75	112 50
Hoyne avenue	Chicago avenue	Division	23	341 55	34 50
Harvard	Campbell avenue	California avenue	66	1,086 36	99 00
Hamlin avenue	Lake	Kinzie	28	405 16	42 00

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT AND THE ASSESSOR'S COST ON EACH STREET—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Halsted.....	Evanson avenue.....	Sulzer.....	132	\$1,941 02	\$183 00
Honore.....	Sixty-ninth.....	Seventy second.....	95	1,396 50	127 30
Hoffman avenue.....	Fullerton avenue.....	Humboldt boulevard.....	35	430 00	52 50
Hoyle avenue.....	Asylum place.....	Fullerton avenue.....		No Main.	
Haynes court.....	Archer avenue.....	Lyman.....	3	57 00	0 00
Honore.....	Sixty-seventh.....	Sixty-ninth.....	33	530 64	49 50
Jackson avenue.....	Fifty-fourth.....	Fifty-ninth.....	219	3,147 03	328 50
Jane.....	Western avenue.....	California avenue.....	63	958 23	94 50
Johnson avenue.....	Archer avenue.....	Fifty-first.....		No Main.	
Jay.....	Centre.....	Garfield avenue.....	7	118 72	10 50
Jay.....	Webster avenue.....	Fullerton avenue.....	17	279 82	25 50
Indiana avenue.....	Egan avenue.....	Forty-third.....	74	1,417 00	111 00
Ione place.....	Grand boulevard.....	Vincennes avenue.....	26	404 56	39 00
Indiana avenue.....	Forty-third.....	Forty-fifth.....	58	964 54	87 00
Kinzie.....	Jefferson.....	May.....	22	362 34	33 00
Kedzie avenue.....	Central Park boulevard.....	Augusta.....	147	2,444 61	220 50
Kimbark.....	Twelfth.....	Twenty-second.....	231	4,377 45	346 50
Kenmore avenue.....	Lawrence avenue.....	Forty-ninth.....	6	89 22	9 00
Lawrence avenue.....	Sheffield avenue.....	Ainslee.....	12	181 20	18 00
Langley avenue.....	Forty-fourth.....	Ashland avenue.....	7	101 64	10 50
Lake.....	Crawford avenue.....	Forty-fifth.....	4	53 36	6 00
Lincoln.....	Forty-ninth.....	West Forty-eighth.....	296	6,035 44	444 00
Lill avenue.....	Halsted.....	Fifty-first.....		Cancelled.	
Langley avenue.....	Fortieth.....	Lincoln avenue.....	7	119 42	10 50
Laughton.....	Hoyle avenue.....	Forty-second.....	11	167 75	16 50
Leavitt.....	Armitage avenue.....	California avenue.....	147	2,179 86	220 50
Lewis.....	Wrightwood avenue.....	Asylum place.....	21	359 31	31 50
Linden.....	Fullerton avenue.....	Diversey avenue.....	16	219 04	24 00
Laurel avenue.....	Fullerton avenue.....	Humboldt boulevard.....	33	465 80	49 50
Leavitt.....	Fullerton avenue.....	Humboldt boulevard.....	41	591 63	61 50
Madison.....	Asylum place.....	Fullerton avenue.....	44	665 72	66 00
Madison.....	Homan avenue.....	Crawford avenue.....	61	1,167 54	91 50
Melrose.....	Evanson avenue.....	Eastern terminus.....	8	106 40	12 00
Milwaukee avenue.....	Fullerton avenue.....	Logan square.....	112	1,719 20	168 00
Madison.....	West Fortieth.....	West Forty-eighth.....	380	8,217 00	570 00

Michigan avenue.....	Fifty-fifth.....	Sixty-third.....	332	6,719 68	498 00
Morgan.....	Fifty-fourth.....	Garfield boulevard.....	25	343 35	37 50
Monroe avenue.....	Fifty-fifth.....	Fifty-eighth.....	30	432 90	45 00
Myrtle.....	Fullerton avenue.....	Humboldt boulevard.....	39	553 80	58 50
Millard avenue.....	Twenty-sixth.....	Twenty-eighth.....	86	1,302 90	129 00
Madison avenue.....	Sixtieth.....	Sixty-sixth.....	157	2,894 25	235 50
Monroe.....	Kedzie avenue.....	Central Park avenue.....	149	2,869 10	233 50
Maud avenue.....	Racine avenue.....	Sheffield avenue.....	17	254 66	25 50
North avenue.....	Kedzie avenue.....	Tinkham avenue.....	129	2,669 01	193 50
Ninetieth.....	Strand.....	Maunistee avenue.....	Cancelled.	Cancelled.	Cancelled.
Norwood avenue.....	Kedzie avenue.....	Homan avenue.....	33	508 86	49 50
Ontario.....	North Clark.....	St. Clair.....	9	225 00	0 00
Hundred and fifteenth.....	I. C. R.....	State.....	120	1,938 00	180 00
Owasco.....	Rockwell.....	California avenue.....	23	300 84	34 50
Oakley avenue.....	Indiana.....	Chicago avenue.....	22	529 43	33 00
Otto.....	Paulina.....	Wood.....	13	305 76	19 50
Ontario avenue.....	Seventy-ninth.....	Eightieth.....	19	330 41	28 50
Park End avenue.....	Sixtieth.....	Sixty-first.....	27	380 16	40 50
Portland avenue.....	Thirtieth.....	Thirty-third.....	37	512 08	55 50
Park avenue.....	Kedzie avenue.....	Homan avenue.....	61	950 99	91 50
Parnell avenue.....	Twenty-ninth.....	Thirty-first.....	2	24 92	3 00
Quinn.....	Archer avenue.....	Thirty-first.....	49	846 23	73 50
Reta.....	Addison.....	Cornelia.....	13	167 18	19 50
Superior.....	Leavitt.....	Rockwell.....	107	4,314 90	160 50
South Park avenue.....	Fifty-first.....	Fifty-fifth.....	83	1,016 75	134 50
Sixty-second.....	Greenwood avenue.....	Cottage Grove avenue.....	16	237 48	24 00
Sacramento avenue.....	Van Buren.....	Twelfth street.....	75	1,158 00	112 50
Superior.....	Rockwell.....	Washtenaw avenue.....	13	253 50	19 50
Spaulding avenue.....	Ogden avenue.....	C., B. & Q. R. R.....	58	884 50	87 00
Stewart avenue.....	Normal parkway.....	Seventy-first.....	47	723 33	70 50
Sawyer avenue.....	Douglas Park boulevard.....	Twenty-second.....	116	1,735 36	174 00
Sixty-seventh.....	Wright.....	Honore.....	6	105 96	9 00
Sheridan avenue.....	Twelfth.....	Fillmore.....	33	490 05	49 50
Sixty-second.....	Halsted.....	Wallace.....	34	480 08	51 00
Seventeenth.....	Lincoln.....	Robey.....	21	343 77	31 50
Seipp avenue.....	Seventy-first.....	Seventy-third.....	80	1,087 30	120 00
Sixty-first.....	Wallace.....	Halsted.....	41	594 09	61 50
Strand.....	Harbor avenue.....	Eighty-ninth.....	Cancelled.	Cancelled.	Cancelled.
Sixty-sixth.....	Stewart avenue.....	Sherman avenue.....	31	464 38	46 50
Sherman avenue.....	Sixty-third.....	Sixty-fifth.....	35	498 05	53 50
Sixty-fourth.....	Wallace.....	Union.....	10	133 40	15 00
String.....	Canalport avenue.....	Twenty-first.....	6	108 00	7 92

PIPES PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1891, SHOWING THE NUMBER OF PIPES,
TOTAL AMOUNT OF CONTRACT AND THE ASSESSOR'S COST ON EACH STREET—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
St. Lawrence avenue.....	Forty-fifth	Fifty-first.....	209	\$3,676 31	\$313 50
Swift place	Wentworth avenue.....	Stewart avenue.....	6	92 40	9 00
Thirty-third	R. I. R.	Halsted.....	59	924 53	88 50
Thirtieth.....	Halsted.....	Stewart avenue.....	6	89 64	9 00
Troy.....	Colorado avenue.....	Jackson.....	.....	Cancelled.	.....
Thirty-eighth.....	Stewart avenue.....	Laurel.....	57	873 67	85 50
Turner avenue.....	Ogden avenue.....	Twenty-first.....	44	641 52	66 00
Twelfth.....	Garfield boulevard	Crawford avenue.....	93	1,833 96	139 50
Troy.....	Twelfth.....	Douglas boulevard	68	1,019 32	102 00
Twenty-sixth.....	Lawndale avenue.....	Hamlin avenue.....	6	87 84	9 00
Twenty-third	Lawndale avenue.....	Hamlin avenue.....	.....	Cancelled.	.....
Twenty-second	Lawndale avenue.....	Hamlin avenue.....	29	600 25	43 50
Twenty-second	Hamlin avenue	Ogden avenue.....	41	706 43	61 50
Turner avenue.....	Douglas Park boulevard	Ogden avenue.....	.....	No Main.	.....
Twenty-eighth.....	Stewart avenue.....	Halsted.....	5	105 50	7 50
Twenty-seventh.....	Portland avenue.....	Stewart avenue.....	7	117 04	10 50
Thomas.....	Western avenue.....	Seymour.....	4	83 92	6 00
Windsor avenue.....	Sheffield avenue.....	Halsted.....	63	830 34	94 50
Wabash avenue.....	Fifty-fifth	Sixty-third.....	239	4,813 46	368 50
Wallace.....	Egan avenue.....	Forty-seventh.....	127	1,793 24	190 50
Wood.....	Armitage avenue.....	Asylum place.....	15	231 00	22 50
Wright.....	Sixty-ninth.....	Seventy-second	85	1,264 80	127 50
Western avenue.....	Egan avenue.....	Illinois and Michigan canal.....	.....	Cancelled.	.....
Washtenaw avenue.....	Ogden avenue.....	Sixteenth.....	31	318 78	31 50
Wharton avenue.....	Sixtieth.....	Sixty-third	124	1,925 72	186 00
Western avenue.....	Blue Island avenue.....	Illinois and Michigan canal.....	.....	Cancelled.	.....
Wabansia avenue.....	Western avenue.....	Milwaukee avenue.....	.....	By Private Om.	.....
Winter street or Union avenue.....	Forty-seventh	Fifty-fifth.....	179	2,532 54	268 50
Washtenaw avenue.....	Robey.....	Milwaukee avenue.....	10	178 10	15 00
Wright.....	Twelfth.....	Ogden avenue.....	30	518 10	45 00
Wright.....	Sixty-fifth.....	Sixty-ninth.....	45	585 00	67 50
Wellington avenue.....	Sheffield avenue.....	Southport avenue.....	24	373 68	36 00
Wolfgram.....	Halsted.....	Racine avenue.....	47	643 90	70 50
Walnut.....	Homan avenue.....	Central Park avenue.....	54	800 82	81 00
Total.....			11,246	\$191,596 02	\$16,803 28

List of streets ordered for improvement with estimated number and cost of water service pipes returned to Superintendent of Special Assessments from January 1 to December 31, 1891.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
*Addison avenue....	Ashland avenue.....	Clark.....	189	\$ 4,536 00
Albany avenue.....	Twelfth.....	Douglas Park blvd ..	39	819 00
*Armitage avenue ..	California avenue ..	Kedzie avenue.....	63	1,323 00
Aberdeen.....	North Clark	Evanston avenue.....	136	2,856 00
Alice place	Powell avenue	Western avenue.....	6	144 00
Ashland avenue.....	Austin avenue	Milwaukee avenue....	6	144 00
Armour avenue.....	Twenty-fifth	Twenty-sixth	0	All in.
Armour avenue.....	Twenty-second	Twenty-fifth.....	134	2,814 00
Armour avenue.....	Gordon	Forty-seventh.....	138	2,898 00
Armour avenue.....	Forty-seventh.....	Fifty-fifth.....	355	7,455 00
Armitage avenue.....	Kedzie avenue.....	Columbia avenue.....	459	10,098 00
*Armour avenue.....	Egan avenue.....	Root.....	113	2,373 00
*Belmont avenue....	Western avenue.....	North br. Chicago riv'r	78	1,638 00
Bremen	Robey	Western avenue.....	81	1,620 00
Berlin	Hoyne avenue.....	Western avenue.....	71	1,420 00
Bonney avenue.....	Ogden avenue	Douglas Park blvd. ...	224	4,704 00
Bishop	Fifty-fifth	Fifty-ninth	156	3,276 00
Byron.....	California avenue.....	Humboldt boulevard..	28	588 00
Bonney avenue.....	Colorado	Harrison	13	286 00
Brown.....	Wright.....	C. & N.-W. R'y.....	7	Not assessed.
Buckingham place..	Evanston avenue.....	Western avenue.....	53	1,113 00
Burling.....	Wrightwood avenue..	Dewey court.....	11	Not assessed.
Bosworth avenue ..	Roscoe.....	Grace.....	120	2,520 00
Belknap	Morgan	Western avenue.....	2	Not assessed.
Buffalo avenue.....	Eighty-third	Ninety-second.....	258	6,192 00
*Central Park avenue	Madison	Harrison.....	95	2,185 00
Church place.....	Archer avenue.....	Fuller.....	12	252 00
California avenue..	Belmont avenue.....	Humboldt boulevard..	223	4,683 00
California avenue..	Milwaukee avenue ..	Humboldt boulevard..	60	1,260 00
Calumet avenue.....	Egan avenue.....	Forty-seventh	370	7,770 00
*South Chicago ave	Commercial avenue..	Ninety-second.....	37	999 00
Carroll avenue.....	W. Fortieth	West Forty-sixth.....	186	3,906 00
Congress	Albany avenue.....	Kedzie avenue.....	47	987 00
Churchill	Robey	Leavitt.....	35	735 00
Coblentz	Robey	Leavitt.....	29	609 00
Champlain avenue..	Forty-seventh.....	Fiftieth.....	131	2,751 00
Cottage Grove ave..	Fifty first.....	Fifty-ninth.....	162	4,212 00
*Calumet avenue.....	Thirty-seventh.....	Thirty-eighth.....	27	567 00
North Centreavenue.	Kinzie	Austin avenue.....	24	504 00
Calumet avenue.....	Forty-seventh.....	Fifty-first.....	184	3,864 00
Columbia place	Lake.....	Kinzie	41	820 00
Crawford avenue ..	Twenty-second.....	Thirty-third	442	11,934 00
Cornelia	Ashland avenue.....	Wood.....	6	Not assessed.
Central Park avenue	Harrison	Douglas Park blvd....	149	3,129 00
Columbia.....	Milwaukee avenue....	Leavitt.....	32	672 00
Congress	Kedzie avenue.....	Homan avenue.....	46	966 00
Cheltenham place ..	Beach	Bond avenue.....	4	Not assessed.
Clarence avenue....	Nellie avenue.....	Grace.....	35	735 00
Central Park avenue	Ohio.....	Lake.....	77	1,617 00
Calumet avenue.....	Fifty-first.....	Fifty-fifth.....	187	3,927 00
Cicero court.....	Van Buren	Congress.....	0	All in.

*Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
Columbia	Milwaukee avenue ..	Leavitt	32	\$ 672 00
Douglas avenue	Archer avenue	Western avenue	62	1,302 00
Dearborn	Egan avenue	Root	112	2,352 00
Douglas avenue	Western avenue	California avenue	119	2,499 00
Diller	Indiana	Ohio	3	Not assessed.
Drexel avenue	Sixtieth	Sixty-third	116	2,900 00
Dearborn	Forty-third	Forty-seventh	144	3,024 00
Dearborn	Forty-seventh	Fifty-fifth	354	7,434 00
Dauphin avenue	Eighty-seventh	Ninety-third	124	2,480 00
Duncan avenue	Eighty-third	Baltimore avenue	16	336 00
*Ellis avenue	Fifty-fifth	Fifty-sixth	25	600 00
*Ellis avenue	Egan avenue	Forty-third	99	2,079 00
Elizabeth	Madison	Randolph	0	All in.
Erie avenue	Eighty-seventh	Ninety-first	148	3,108 00
Evans avenue	Forty-seventh	Forty-ninth	65	1,365 00
Eighty-eighth	South Park avenue	I. C. R. R.	211	4,431 00
Eighty-ninth	South Park avenue	I. C. R. R.	209	4,389 00
Eighty-seventh place	South Park avenue	Dauphin avenue	219	4,599 00
Eighty-eighth place	South Park avenue	Dauphin avenue	211	4,431 00
Eighty-ninth place	South Park avenue	Dauphin avenue	200	4,200 00
*Frank	Diversey avenue	Surf.	28	462 00
*Forty-fifth	State	Grand boulevard	27	567 00
*Forrest avenue	Fullerton avenue	Humboldt boulevard	35	735 00
*Fairview	Fullerton avenue	Humboldt boulevard	36	756 00
Fifty-seventh	Wentworth avenue	Halsted	103	2,163 00
*Forty-second	Drexel avenue	Oakenwald avenue	33	693 00
Fairfield avenue	Lake	Kinzie	0	All in.
Fulton	Homan avenue	Central Park avenue	78	2,106 00
Fulton	Hamlin avenue	Columbia place	7	Not assessed.
Frankfort	Hoyle avenue	Leavitt	20	420 00
Fifty-first	Wallace	Ashland avenue	365	7,665 00
*Forty-third	State	Halsted	76	1,596 00
Fifth avenue	Douglas avenue	Thirty-seventh	19	399 00
*Forrestville avenue	Forty-eighth	Fifty-first	120	2,520 00
Forty-seventh	State	Cottage Grove avenue	177	3,717 00
Fairfield avenue	North avenue	Hirsch	62	1,302 00
Fourteenth	Wabash avenue	Indiana avenue	0	All in.
Forty-second place	Grand avenue	Vincennes avenue	7	147 00
Flournoy	Sacramento avenue	Francisco	25	550 00
Farrell	Archer avenue	Thirty-first	65	1,365 00
Flournoy	California avenue	Francisco	0	All in.
Fifty-ninth	Halsted	Centre avenue	144	3,024 00
*Forty-fifth	Wallace	Stewart avenue	40	840 00
Fiftieth	Cottage Grove avenue	Drexel boulevard	10	210 00
Ferdinand	Ashland avenue	Paulina	12	252 00
Fisk	Sixteenth	Eighteenth	7	154 00
Forty-fourth	Cottage Grove avenue	Drexel boulevard	10	210 00
Fifty-ninth	State	South Park avenue	0	All in.
Forty-sixth	Drexel boulevard	Woodlawn avenue	40	840 00
Forty-fourth	State	St. Lawrence avenue	56	1,176 00
Fifty-third	Lake Michigan	Cottage Grove avenue	215	5,160 00
Forty-eighth	Cottage Grove avenue	Drexel boulevard	17	357 00
Forty-seventh	Cottage Grove avenue	Drexel boulevard	17	357 00
Forty-second place	Vincennes avenue	St. Lawrence avenue	22	462 00
Forty-first	State	Grand boulevard	25	525 00
Forty-second	Vincennes avenue	St. Lawrence avenue	0	All in.

* Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
Gehrke avenue.....	North Clark.....	Sheffield avenue.....	39	\$ 819 00
Gross avenue.....	Loomis.....	Forty-seventh.....	104	2,184 00
Gloy place.....	Elston avenue.....	Lister.....	0	All in.
Greenwood.....	Western avenue.....	Station.....	13	234 00
Graceland avenue.....	North Clark.....	C. & N.-W.-R'y.....	67	1,809 00
Genesee avenue.....	Colorado avenue.....	Harrison.....	23	506 00
Grace avenue.....	Sixty-third.....	Sixty-fifth.....	58	1,160 00
*Hoffman avenue.....	Fullerton avenue.....	Humboldt boulevard..	37	777 00
Hoyne avenue.....	Asylum place.....	Fullerton avenue.....	36	756 00
*Haynes court.....	Archer avenue.....	Lyman.....	8	152 00
Harrison.....	Fifth avenue.....	South bl. Chicago river	0	All in.
*Honore.....	Sixty-seventh.....	Sixty-ninth.....	55	1,375 00
Hickory.....	Main.....	Cologne.....	23	483 00
Huron.....	Albany avenue.....	Kedzie avenue.....	0	All in.
Humboldt boulevard	North avenue.....	Logan square.....	330	6,600 00
Hoyne avenue.....	Belmont avenue.....	Clybourn avenue.....	112	2,352 00
Harding avenue.....	Kinzie.....	Chicago avenue.....	130	2,394 00
Humboldt boulevard	Logan Square.....	Western avenue.....	272	5,440 00
Harvard.....	Seventy-third.....	Seventy-fifth.....	91	1,911 00
Hazel avenue.....	Buena avenue.....	Montrose boulevard..	60	1,260 00
Indiana avenue.....	Forty-third.....	Forty-fifth.....	91	2,457 00
Ingleside avenue.....	Fifty-fifth.....	Fifty-ninth.....	200	4,290 00
Ingleside avenue.....	Fifty-first.....	Fifty-fifth.....	172	3,956 00
Indiana avenue.....	Twelfth.....	Pumping works.....	16	336 00
Indiana avenue.....	Forty-fifth.....	Fifty-first.....	270	7,290 00
Joseph.....	Archer avenue.....	Hickory.....	16	336 00
Jane.....	Hoyne avenue.....	Leavitt.....	20	440 00
Jackson.....	Clinton.....	Halsted.....	9	Not assessed.
Jackson.....	Halsted.....	Central Park avenue..	5	Not assessed.
Jansen avenue.....	Roscoe.....	Grace.....	147	3,087 00
Kedzie avenue.....	Augusta.....	North avenue.....	122	2,928 00
*Kenmore avenue.....	Lawrence avenue.....	Ainsley.....	66	1,386 00
Kuehl place.....	Elston avenue.....	Lister.....	0	All in.
Kenwood avenue.....	Vincennes avenue.....	Grand boulevard.....	28	588 00
Kemper place.....	Orchard.....	Larrabee.....	3	Not assessed.
*Laughton.....	Hoyne avenue.....	California avenue.....	158	3,818 00
*Leavitt.....	Armitage avenue.....	Asylum place.....	32	672 00
*Lewis.....	Wrightwood avenue.....	Diversey avenue.....	20	420 00
*Linden.....	Fullerton avenue.....	Humboldt boulevard..	46	966 00
*Laurel avenue.....	Fullerton avenue.....	Humboldt boulevard..	46	966 00
Leavitt.....	Asylum place.....	Fullerton avenue.....	56	1,176 00
Lister.....	Robey.....	Asylum place.....	82	1,722 00
Lill.....	Western avenue.....	Station.....	46	966 00
Loomis.....	Fifty-fifth.....	Fifty-ninth.....	156	3,276 00
Lafin.....	Fifty-fifth.....	Fifty-ninth.....	159	3,339 00
Lowe avenue.....	Twenty-sixth.....	Egan avenue.....	260	5,460 00
Lawndale avenue.....	C. B. & O. R. R.....	125 ft. S. of Twenty-second..	16	336 00
Larrabee.....	Fullerton avenue.....	Frederick.....	10	200 00
Lexington.....	California avenue.....	Francisco.....	22	462 00
Lincoln avenue.....	Addison avenue.....	Sulzer.....	368	7,728 00
Logan square.....	North, South.....	East and West sides..	38	760 00
Larrabee.....	Frederick.....	Deming court.....	3	Not assessed.
Lexington avenue.....	Sixty-third.....	Sixty-fifth.....	59	1,239 00
Langley avenue.....	Eighty-seventh.....	Ninety-first.....	32	672 00
Lincoln.....	Twelfth.....	Thirteenth.....	0	All in.
*Myrtle.....	Fullerton avenue.....	Humboldt boulevard..	44	924 00

*Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
*Millard avenue...	Twenty-sixth	Twenty-eighth	92	\$ 1,932 00
*Madison avenue...	Sixtieth	Sixty-sixth	179	4,117 00
Monroe	Kedzie avenue	Central Park avenue..	155	3,565 00
Montana	Western avenue	Station	12	252 00
Millard avenue...	Twelfth	Ogden avenue	253	5,313 00
Melrose	Evanston avenue	Halsted	60	882 00
Maud avenue...	Racine avenue	Sheffield avenue	26	546 00
Myrtle	Ashland avenue	Taylor	3	Not assessed.
Milwaukee avenue..	Logan square	City limits	1,802	39,644 00
Michigan	State	Cass	4	Not assessed.
Matthew	Ogden avenue	Wood	8	176 00
Morgan	Sixteenth	Eighteenth	0	All in.
Maryland avenue...	Sixty-third	Sixty-fifth	85	1,785 00
Monroe	Canal	Halsted	4	Not assessed.
Mackinaw avenue...	Eighty-ninth	Ninety-second	86	2,150 00
Ninetieth	South Park avenue ..	Ill. C. R. R.	197	4,137 00
Ninety-third	Cottage Grove avenue	Ill. C. R. R.	3	Not assessed.
Ninety-second	Cottage Grove avenue	Ill. C. R. R.	2	Not assessed.
Ninety-first	Cottage Grove avenue	Ill. C. R. R.	8	176 00
Ninetieth place...	South Park avenue ..	Dauphin	195	4,095 00
Newport avenue...	Sheffield avenue	Halsted	80	1,680 00
North place	Armitage avenue	N. W. terminus	7	147 00
Oakley avenue	Fullerton avenue	Station	21	441 00
Ohio	Clark	St. Clair	0	All in.
Osgood	Clybourn avenue	Fullerton avenue	37	777 00
Oglesby avenue	Sixty-eighth	Seventy-first	132	2,772 00
Hundred and fourth.	Hoxie avenue	Florence avenue	0	All in.
*Parnell avenue...	Twenty-ninth	Thirty-first	9	198 00
Pearson	North Franklin	Market	0	All in.
Park avenue	West Fortieth	West Forty-sixth	223	6,021 00
Paulina	Wellington	Belmont avenue	0	All in.
Prairie avenue	Egan avenue	Forty-second	143	3,861 00
Polk	Rockwell	California avenue	65	1,365 00
Palmer place	North, South	East and West sides ..	98	1,960 00
Prairie avenue	Forty-second	Fifty-first	426	11,502 00
Park row	Michigan avenue	Ill. C. R. R.	0	All in.
Paxton avenue	Sixty-seventh	Seventy-first	197	4,137 00
Paxton avenue	Seventy-fifth	Seventy-ninth	171	3,591 00
Prairie avenue	Fifty-first	Fifty-fifth	178	4,806 00
*Quinn	Archer avenue	Thirty-first	83	1,660 00
Quarry	C. & A. R. R.	Cologne	21	Not assessed.
Rhine	Leavitt	Western avenue	43	903 00
*Reta	Addison avenue	Cornelia	43	903 00
Robey	Twelfth	Thirteenth	2	Not assessed.
Robey	Madison	Harrison	0	All in.
Roscoe	Robey	Southport avenue	129	2,709 00
Rokeby	Addison avenue	Grace	59	1,357 00
Robey	Archer avenue	Egan avenue	135	2,835 00
Rosebud	Bloomington avenue ..	Western avenue	20	420 00
Robertson	L. C. R. W.	Grace	31	589 00
*St. Lawrence ave.	Forty-fifth	Fifty-first	252	5,292 00
*Swift place	Wentworth avenue	Stewart avenue	15	315 00
Seventy-fourth	Jeffrey avenue	Bond avenue	268	5,628 00
Seipp avenue	Seventy-third	Seventy-fifth	69	1,449 00
Stephens	Jackson	Van Buren	4	84 00
Sobieski	Asylum place	Fullerton avenue	33	693 00

* Contracts let and work done.

STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	Estimated Number of Pipes.	Estimated Cost.
St. Hedwig	Asylum place	Pulaski	22	\$ 462 00
Sixty-third	Wallace	Halsted	60	1,260 00
Station	Western avenue	Leavitt	65	1,235 00
Superior	Eighty-ninth	Ninety second	49	1,029 00
Seventy-third	State	Wallace	121	2,562 00
Stewart avenue	Seventy-seventh	Seventy-ninth	55	1,155 00
Seminary avenue	Center	Maud avenue	26	546 00
Seventy-fourth	State	Stewart avenue	60	1,260 00
Seventy-first	Cottage Grove avenue	South Park avenue	53	1,113 00
Seventy-first	Indiana avenue	South Park avenue	54	1,134 00
Superior avenue	Eighty-seventh	Eighty-ninth	46	966 00
School	North Clark	Halsted	11	231 00
Seventy-first	Stony Island avenue	Oglesby avenue	246	5,166 00
Sawyer avenue	Ogden avenue	Twenty-second	0	All in.
Starr	Robertson avenue	South terminus	62	1,240 00
Southport avenue	Belmont avenue	Graceland avenue	282	6,486 00
South Park avenue	Fifty-fifth	Sixtieth	110	2,310 00
Sixty-sixth	Wright	Stewart avenue	20	420 00
Sixty-fifth cour	Wright	Stewart avenue	14	308 00
Seventy-fourth	Yates avenue	Bond avenue	62	1,302 00
State	Sixty-fourth	Sixty-eighth	128	3,956 00
Stony Island avenue	Fifty-seventh	Sixty-seventh	194	4,074 00
Sixty-second	Stony Island avenue	Ill. C. R. R.	27	567 00
St. Lawrence avenue	Eighty-seventh place	Ninety-first	0	All in.
Sixty-fourth	Woodlawn avenue	Stony Island avenue	45	945 00
*Thomas	Western avenue	Seymour avenue	7	154 00
Twenty-ninth	Halsted	Main	67	1,407 00
Twelfth	Michigan avenue	Indiana avenue	0	All in.
Thirty-second	State	C. R. I. & P. R'y	0	All in.
Thirtieth	Ashland	Western avenue	122	2,684 00
Thirty-sixth	Halsted	Laurel avenue	36	756 00
Tucker	Thirty-fifth	Egan avenue	36	756 00
Troy	Twelfth	Douglas boulevard	0	All in.
Union place	Twenty-second	Union	10	210 00
Upton	Western avenue	Milwaukee avenue	7	147 00
Van Buren	Homan avenue	Central Park avenue	69	1,449 00
Vincennes avenue	Eighty-seventh	Ninety-first	0	All in.
Western avenue	Fullerton avenue	Belmont avenue	256	5,376 00
*Wellington avenue	Sheffield avenue	Southport avenue	42	966 00
*Wolfram	Halsted	Racine avenue	59	1,239 00
Washtenaw avenue	Lake	Kinzie	21	441 00
Webster avenue	Dominick	North branch Chicago river	12	252 00
Warren avenue	Leavitt	Oakley avenue	0	All in.
Wright	Stewart avenue	Canal	5	Not assessed.
Weed	Clybourn avenue	Eastern terminus	0	All in.
Washington avenue	Ninety-first	Ninety-fifth	103	2,163 00
Washtenaw avenue	Division	North avenue	0	All in.
Washtenaw avenue	Sixteenth	Twenty-second	52	1,092 00
Webster avenue	Seventy-third	Seventy-fifth	95	1,995 00
*Walnut	Homan avenue	Central Park avenue	57	1,197 00
Wright	Root	Forty-third	10	220 00
Wabash avenue	Twenty-second	Fifty-fifth	672	18,144 00
Wharton avenue	Fifty-first	Fifty-fifth	165	3,960 00
Wendell avenue	Eighty-second	Eighty-third	33	693 00
Woodlawn avenue	Sixty-fourth	Sixty-fifth	40	840 00
Zion place	Throop	Loomis	0	All in.
TOTAL			23,980	\$525,383 00

* Contracts let and work done.

In conclusion, I can only say that I find no let-up in the work of this sub-department.

We put in during the year 1891, by contract, on 187 streets, 11,246 water service pipes, at an aggregate cost of \$191,596.02. The Assessor's cost on the same, as passed to the credit of the water fund, amounted to \$16,803.28.

We also made estimates and returns to the special assessment department on 275 streets for 23,980 water service pipes at an estimated cost of \$525,383.00, during the same time.

We are still working at very great inconvenience on account of deficiency of room and light; we actually need double the space we have—especially for the draughtsmen. If any arrangement could be made to give us more room it would be highly appreciated.

Respectfully submitted,

THOMAS PATTISON,

Water Assessor.

PERMIT CLERK'S REPORT.

CHICAGO, January 30, 1892.

WILLIAM LORIMER, Esq.,

Superintendent.

DEAR SIR:—I take pleasure in presenting herewith my annual report of all work accomplished in my sub-department of the Water Office during the fiscal year ending December 31, 1891.

The number of ferrules inserted for water service pipes during the past year exceeded the number put in during the previous year by 1,569. This is a large increase, as the previous year was an unusually active one, and taxed the ability of the force employed in this sub-department to the utmost to perform all that was required. Owing to a rumor that the City Council would increase the Plumber's License from one dollar to one hundred dollars per annum, the master plumbers came in earlier than usual for their licenses, hoping thereby to secure them before the Council could take action.

As each license is accompanied by a bond requiring the signature of the plumber and two sureties, the rush during the first two months of the year was unprecedented and kept the office force exceedingly busy.

On the 18th of April the Commissioner of Public Works let contracts for laying water service pipes in sixty-five streets about to be improved, and on the 30th day of April contracts were let for eighty more streets, making a total of one hundred and forty-five contracts let within one month. Additional lettings were made during the summer and fall, which brought the total number of streets for which contracts were let up to one hundred seventy-eight. The accompanying tables show that in said one hundred and seventy-eight streets 11,246 ferrules and water service pipes were put in. They also show that, in addition thereto, 12,135 ferrules were inserted for sundry applicants at the office, mostly for new buildings and for buildings in new pipe districts; thus showing a grand total for the year of 23,381 ferrules inserted, a record for one year unparalleled in the history of the city.

As the city contracts were let on short notice and divided among a dozen different contractors, some of whom employed two and three gangs of men at the same time, it was found impossible with the small force at my command to supply them and the numerous callers at the office, without working with a part of my force almost every evening from April to November, preparing permits, schedules, and giving measurements from the plats

where pipes were to be laid in accordance with the assessments. This double duty would not have been so irksome to those so employed had the temperature of our office not exceeded the normal both by day and night from June to October. Our office being located just above the engine and boilers in the basement, is subjected to more heat from below, and to heat from the almost constantly burning electric lights, than any other office in the building.

Opening the windows gave very little relief, as most of the time hot air from the furnaces below was blown in, and there being no ventilators near the ceiling the hot air could not escape. I consider it my duty to allude to this subject, as the clerk connected with this sub-department who died in October is said to have stated on his death-bed that the cause of his illness was attributable to the excessive heat of the office; and the further fact that two ladies and one gentleman were overcome by the heat and had to be carried out of the room. Besides the above are the numerous complaints from the clerks, and from the public who are compelled to do business with us.

We hope and trust that something will be done to give us relief. In my opinion the best remedy would be to have openings made near the top of the now existing foul air flues, which could be done at slight expense.

The following table shows the number of screw ferrules inserted monthly during 1891:

MONTHS.	$\frac{3}{8}$ -inch Screw Ferrules Inserted.	$\frac{1}{2}$ -inch Screw Ferrules Inserted.	1-inch Screw Ferrules Inserted.	Grand Total of Screw Ferrules Inserted.
January.....	299	98	10	407
February.....	279	299	4	582
March.....	346	234	14	594
April.....	521	479	8	1,008
May.....	714	369	27	1,110
June.....	756	360	19	1,135
July.....	822	428	30	1,280
August.....	636	434	21	1,091
September.....	562	478	21	1,061
October.....	696	641	32	1,369
November.....	461	329	30	820
December.....	347	214	16	577
TOTAL.....	6,439	4,363	232	11,034

The following table shows the number of driven ferrules inserted monthly during 1891:

MONTHS.	$\frac{3}{4}$ -inch Driven Ferrules Inserted.	$\frac{3}{4}$ -inch Driven Ferrules Inserted.	1-inch Driven Ferrules Inserted.	Grand Total of Driven Ferrules Inserted.
January.....	2	1	....	3
February.....	2	8	....	5
March.....	....	143	....	143
April.....	60	282	....	342
May.....	7	2,286	....	2,248
June.....	8	2,695	....	2,698
July.....	....	2,330	....	2,330
August.....	....	1,676	....	1,676
September.....	....	1,840	....	1,840
October.....	....	1,239	....	1,239
November.....	1	279	....	280
December.....	4	88	6	48
TOTAL.....	79	12,262	6	12,347

SUMMARY OF FERRULES INSERTED.

	$\frac{3}{4}$ -inch.	$\frac{3}{4}$ -inch.	1-inch.	Grand Total.
Screw ferrules.....	6,439	4,863	282	11,084
Driven ferrules.....	79	12,262	6	12,347
GRAND TOTAL.....	6,518	16,625	288	23,381

The ferrules inserted, as per preceding tables, were divided among the different sections of the city, as follows :

		$\frac{3}{8}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Total Screw Ferrules.	Total Driven Ferrules.
In old part of city	{ Screw ..	1,841	1,824	146	8,811	.....
	{ Driven..	77	6,843	6	.....	6,426
In Lake View	{ Screw ..	557	950	24	1,581	.....
	{ Driven..	.....	927	.....	.....	927
In Hyde Park.....	{ Screw ..	1,536	875	40	2,451	.....
	{ Driven..	2	3,205	.....	.....	3,207
In Town of Lake.....	{ Screw ..	1,809	621	14	2,444	.....
	{ Driven..	.....	1,721	.....	.....	1,721
In Calumet	{ Screw ..	158	12	2	172	.....
	{ Driven..	.....	62	.....	.....	62
In Jefferson.....	{ Screw ..	489	71	6	566	.....
	{ Driven..	.....	4	.....	.....	4
In Cicero	{ Screw ..	49	10	.....	59	.....
	{ Driven..	.....	.....	.....	.....	.....
TOTAL.....		6,518	16,625	288	11,034	12,847

Under contracts let by the Commissioner of Public Works for water service pipes in streets about to be improved, the following number of ferrules were inserted :

	Three-quarter-inch Ferrules.
Inserted in old part of city.....	5,922
Inserted in Lake View.....	795
Inserted in Hyde Park.....	3,191
Inserted in Town of Lake.....	1,388
Grand Total.....	11,246

For pipe foremen the following ferrules were inserted as re-taps in re-placed street mains :

	$\frac{3}{8}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Grand Totals.
Inserted in old part of city	82	79	12	173
Inserted in Lake View ..	1	22	.....	23
Inserted in Hyde Park	18	27	1	41
Inserted in Town of Lake	2	34	.....	36
TOTAL	96	162	13	278

Applications were made at the office for the insertion of ferrules for water service pipes to new buildings, and to buildings in new pipe districts in all parts of the city, as follows :

	Number of Ferrules.
Inserted in old part of city.....	4,815
Inserted in Lake View.	1,663
Inserted in Hyde Park.	2,467
Inserted in Town of Lake.....	2,837
Inserted in Calumet.....	284
Inserted in Cicero.....	59
Inserted in Jefferson.....	570
Grand Total.....	12,185

As a number of the ferrules inserted, as per preceding tables, were for parties who previously had an inadequate supply and had their pipes enlarged, the following table shows the actual increase to the pipes inserted in previous years:

	Number Inserted.	Actual Increase.
Total ferrules inserted in old part of city.....	10,237	
Less 173 re-taps and 586 for enlarged service pipes..	739	
		9,498
Total ferrules inserted in Lake View.....	2,458	
Less 23 re-taps and 74 for enlarged service pipes ...	97	
		2,361
Total ferrules inserted in Hyde Park.....	5,658	
Less 41 re-taps and 30 for enlarged service pipes....	71	
		5,587
Total ferrules inserted in Town of Lake.....	4,165	
Less 36 re-taps and 41 for enlarged service pipes....	77	
		4,088
Total ferrules inserted in Calumet ..	284	
Less for re-taps and enlarged service pipes		
		284
Total ferrules inserted in Cicero.....	59	
Less for re-taps and enlarged service pipes.....		
		59
Total ferrules inserted in Jefferson.....	570	
Less for re-taps and enlarged service pipes		
		570
Total actual increase for the whole city.....		22,397

Tabular statement showing by comparison the number of ferrules inserted each year for the last eleven years, and the total number in use on January 1, 1892.

	Year.	Number Ferrules in old part of city.	Number of Ferrules in Suburbs.	Total number of Ferrules in use.
Inserted previous to.....	1880	63,510	.....	.....
	1880	4,439	.....	67,949
	1881	5,678	.....	73,627
	1882	5,213	.....	78,840
	1883	6,656	.....	85,496
	1884	6,687	.....	92,183
	1885	6,555	.....	98,638
	1886	8,088	.....	106,771
	1887	8,807	.....	115,578
	1888	10,089	.....	125,667
	1889	7,617	.....	.....
* Lake View, six months.....	1889	.....	889	137,189
* Hyde Park, six months.....	1889	.....	1,730	
* Town of Lake, six months.....	1889	.....	1,266	
	1890	10,127	.....	.....
* Lake View.....	1890	.....	3,440	159,001
* Hyde Park.....	1890	.....	3,883	
* Town of Lake.....	1890	.....	3,951	
* Calumet.....	1890	.....	152	
* Cicero.....	1890	.....	289	
* Jefferson.....	1890	.....	20	
	1891	10,237	.....	.....
* Lake View.....	1891	.....	2,458	182,382
* Hyde Park.....	1891	.....	5,658	
* Town of Lake.....	1891	.....	4,165	
* Calumet.....	1891	.....	234	
* Cicero.....	1891	.....	59	
* Jefferson.....	1891	.....	570	

* The total number of ferrules inserted in the suburbs previous to annexation is unknown.

PERMITS ISSUED DURING 1891.

For tapping water mains for pipes to inside of curb lines for future use.....	11,246
For tapping water mains for enlarged service pipes to houses previously supplied.....	711
For tapping water mains for service pipes to houses not previously supplied.....	7,612
For connections to service pipes in—inside of curb lines.....	1,237
For 4-inch cast iron pipes to be used as service pipes.....	44
For 6-inch cast iron pipes to be used as service pipes.....	11
For T connections for 1½ and 2-inch service pipes.....	89
For special or miscellaneous permits.....	832
Grand total.....	21,783

MISCELLANEOUS.

Number of inspections made by the plumbing inspectors.....	19,383
Number of plumbers' bonds filed.....	476
Number of plumbers' licenses issued.....	476
Number of leak reports received.....	743

RECEIPTS—EARNINGS.

Amount received for inserting ferrules (of all sizes) as per cash book.....	\$38,965 60
Amount received for permits giving permission to connect with pipes in at curb lines on sundry streets in annexed suburbs, on which only a part of the assessment has been collected.....	291 00
Amount to be credited to Water Fund for 11,246 ¾-inch ferrules inserted for street improvement water service pipes and deducted from contractors' bills at \$3.50 each.....	39,361 00
Amount received for plumbers' licenses at \$1.00 each.....	476 00
For re-taps inserted in replaced street mains, and for miscellaneous use, as follows:	
98 ¾-inch ferrules @ \$3.00.....	294 00
162 ¾-inch ferrules @ \$3.50.....	567 00
13 1-inch ferrules @ \$5.40.....	70 20
Total receipts—earnings.....	\$80,024 80

EXPENDITURES.

Cost of new parts of screw tapping machines.....	\$ 251 38
Cost of Permit Clerk's books, blanks, etc.....	148 25
Cost of car fare for Plumbing Inspectors and Tappers.....	438 57
Cost of miscellaneous material for use of Tappers.....	103 11
Cost of advertising for bids to lay water service pipes.....	22 50
Maintenance of three horses at water works stables.....	1,295 16
Sundry repairs at water works machine shops.....	311 68
Plumbing bills paid for lengthening out service pipes to inside of new curb lines on sundry streets.....	92 00
Decrease in stock.....	13 27
Cost of hardened steel sockets, as follows:	
6 ¾-inch @ \$2.75.....	16 50
18 ¾-inch @ \$2.75.....	49 50

WATER OFFICE REPORT.

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PROPERTY.—WATER PERMIT DEPARTMENT, DECEMBER
31, 1891.

	$\frac{1}{2}$ -inch Screw Ferrules.	$\frac{3}{4}$ -inch Screw Ferrules.	$\frac{1}{2}$ -inch Screw Ferrules.	1-inch Screw Ferrules.
81, 1890.	15	1,091	1,885	51
91.....		8,700	8,500	880
.....	15	9,791	5,885	881
.....		6,489	4,863	283
81, 1891.....	15	8,417	1,186	158
es.....	18	99	66	.....
and December 31, 1891.....	2	8,318	1,120	158

	$\frac{1}{2}$ -inch Driven Ferrules.	$\frac{3}{4}$ -inch Driven Ferrules.	$\frac{1}{2}$ -inch Driven Ferrules.	1-inch Driven Ferrules.
81, 1890.....	15	2,081	2,890	468
91.....		1,100	9,700	.....
.....	15	3,181	12,590	468
.....		79	12,263	6
81, 1891.....	17	8,000	842	457
es.....	2	.....	88	.....
and December 31, 1891.....	15	8,000	809	457

SUMMARY OF FERRULES ON HAND.

	$\frac{1}{2}$ -inch Ferrules.	$\frac{3}{4}$ -inch Ferrules.	$\frac{1}{2}$ -inch Ferrules.	1-inch Ferrules.	Grand Total.
and December 31, 1891...	2	8,318	1,120	158	4,598
891...	15	8,000	809	457	3,781
..	17	6,818	1,429	615	8,879

Cost of drills used up on screw tapping machines, as follows:

30 $\frac{5}{8}$ -inch @ \$4.05.....	\$ 121 50
22 $\frac{3}{4}$ -inch @ \$4.95.....	108 90
6 1-inch @ \$5.85.....	35 10

Cost of drills used up on smooth-bore tapping machines, as follows:

22 $\frac{5}{8}$ -inch, 95 $\frac{3}{4}$ -inch, and 2 1-inch; total 119 @ \$1.60 each	190 40
Salaries paid Permit Clerk and Assistants.....	7,387 54
Salaries paid Plumbing Inspectors.....	15,990 52
Salaries paid Tappers.....	14,557 08
Paid for expressage.....	8,169 99
Amount paid for hired day labor.....	2,628 00
Money refunded for permits cancelled.....	5 00
Cost of oil for tapping machines	3 50
Cost of one gauge for fitting ferrules.....	10 75

Cost of 6,439 $\frac{5}{8}$ -inch screw ferrules, inserted—

1,091 @ 51c.....	\$ 556 41
5,348 @ 37 $\frac{1}{2}$ c.....	1,985 48
	<u>2,541 89</u>

Cost of 4,363 $\frac{3}{4}$ -inch screw ferrules, inserted—

1,885 @ 60c.....	\$1,131 00
2,478 @ 44 $\frac{1}{4}$ c.....	1,096 51
	<u>2,227 51</u>

Cost of 232 1-inch screw ferrules, inserted, @ 60c..... 139 20 |

Cost of 79 $\frac{5}{8}$ -inch driven ferrules, inserted, @ 45c..... 35 55 |

Cost of 12,262 $\frac{3}{4}$ -inch driven ferrules, inserted—

2,890 @ 60c.....	\$1,734 00
9,372 @ 45 $\frac{1}{2}$ c.....	4,264 26
	<u>5,998 26</u>

Cost of 6 1-inch driven ferrules, inserted, @ \$1.30..... 7 80 |

Cost of 33 $\frac{5}{8}$ -inch screw ferrules, inserted as re-taps, @ 37 $\frac{1}{2}$ c..... 12 25 |

Cost of 28 $\frac{3}{4}$ -inch screw ferrules, inserted as re-taps, @ 44 $\frac{1}{4}$ c..... 12 39 |

Cost of 7 1-inch screw ferrules, inserted as re-taps, @ 60c..... 4 20 |

Cost of 65 $\frac{5}{8}$ -inch driven ferrules, inserted as re-taps, @ 45c..... 29 25 |

Cost of 134 $\frac{3}{4}$ -inch driven ferrules, inserted as re-taps, @ 45 $\frac{1}{2}$ c..... 60 97 |

Cost of 6 1-inch driven ferrules, inserted as re-taps, @ \$1.30..... 7 80 |

Cost of 450 tail pieces for sundry ferrules..... 69 00 |

Total expenditures..... \$63,036 27 |

Total receipts—earnings..... 80,024 80 |

Total expenditures..... 63,036 27 |

Net gain..... \$16,988 53 |

INVENTORY OF PROPERTY.—WATER PERMIT DEPARTMENT, DECEMBER 31, 1891.

	$\frac{1}{2}$ -inch Screw Ferrules.	$\frac{3}{4}$ -inch Screw Ferrules.	$\frac{3}{4}$ -inch Screw Ferrules.	1-inch Screw Ferrules.
On hand December 31, 1890.	15	1,091	1,885	51
Purchased during 1891.....		8,700	3,500	330
TOTAL.....	15	9,791	5,385	381
Used during 1891.....		6,439	4,363	232
On hand December 31, 1891.....	15	3,417	1,186	158
Less damaged ferrules.....	13	99	66	.....
Perfect ferrules on hand December 31, 1891.....	2	3,318	1,120	158

	$\frac{1}{4}$ -inch Driven Ferrules.	$\frac{3}{4}$ -inch Driven Ferrules.	$\frac{3}{4}$ -inch Driven Ferrules.	1-inch Driven Ferrules.
On hand December 31, 1890.	15	2,031	2,890	463
Purchased during 1891.....		1,100	9,700	.....
TOTAL.....	15	3,131	12,590	463
Used during 1891.....		79	12,262	6
On hand December 31, 1891.....	17	3,000	342	457
Less damaged ferrules.....	2	.....	33	.....
Perfect ferrules on hand December 31, 1891.....	15	3,000	309	457

SUMMARY OF FERRULES ON HAND.

	$\frac{1}{2}$ -inch Ferrules.	$\frac{3}{4}$ -inch Ferrules.	$\frac{3}{4}$ -inch Ferrules.	1-inch Ferrules.	Grand Total.
Screw ferrules on hand December 31, 1891...	2	3,318	1,120	158	4,598
Driven ferrules on hand December 31, 1891...	15	3,000	309	457	3,781
TOTAL.....	17	6,318	1,429	615	8,379

	$\frac{1}{2}$ -inch Screw Drills.	$\frac{3}{4}$ -inch Screw Drills.	$\frac{1}{2}$ -inch Screw Drills.	1-inch Screw Drills.	$\frac{1}{2}$ -inch Smooth Bore Drills.	$\frac{3}{4}$ -inch Smooth Bore Drills.	$\frac{1}{2}$ -inch Smooth Bore Drills.	1-inch Smooth Bore Drills.
On hand December 31, 1890.....	3	55	69	30	1	39	46	4
Purchased during 1891.....	.....	84	48	12	.....	42	78	12
TOTAL.....	3	139	117	42	1	81	124	16
Used during 1891.....	.....	60	46	20	.....	31	102	2
On hand December 31, 1891.....	3	79	71	22	1	50	22	14

	Extra Couplings for $\frac{3}{4}$ -inch Screw Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Screw Ferrules.	Extra Couplings for $\frac{3}{4}$ -inch Driven Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Driven Ferrules.
On hand December 31, 1890.....	517	508	45	274
Purchased during 1891.....	150	150	.....	150
TOTAL.....	667	658	45	424
Used during 1891.....	328	570	15	23
On hand December 31, 1891.....	339	88	30	401

	$\frac{1}{2}$ -inch Short Shank Plugs.	$\frac{1}{2}$ -inch Long Shank Plugs.	$\frac{3}{4}$ -inch Short Shank Plugs.	$\frac{3}{4}$ -inch Long Shank Plugs.	$\frac{1}{2}$ -inch Short Shank Plugs.	$\frac{1}{2}$ -inch Long Shank Plugs.	1-inch Short Shank Plugs.	1-inch Long Shank Plugs.
On hand December 31, 1890.....	43	37	20	79	24	78	23	16
Used during 1891.....	.....	3	1	8	2	6	1	3
On hand December 31, 1891..	43	34	19	71	22	72	22	13

We had on hand December 31, 1890, machines for inserting driven and screw ferrules, as follows:

Number of machines for driving ferrules.....	9
Number of Mueller screw tapping machines.....	19
Total.....	28

The following table shows the number of tools and extra fittings belonging to machines for driving ferrules, and to Mueller screw tapping machines, on hand December 31, 1891 :

$\frac{5}{8}$ -inch steel sockets.....	20
$\frac{3}{4}$ -inch steel sockets.....	14
1-inch steel sockets.....	1
$\frac{5}{8}$ -inch brass sockets.....	8
$\frac{3}{4}$ -inch brass sockets.....	10
1-inch brass sockets.....	18
3-inch saddles.....	2
4-inch saddles.....	17
6-inch saddles.....	20
8-inch saddles.....	14
10-inch saddles.....	16
16-inch saddles.....	12
18-inch saddles.....	1
24-inch saddles.....	5
Chains, long.....	18
Chains, short.....	20
Monkey wrenches.....	17
Ratchets.....	7
Spring and pins back of ratchets.....	10
Ratchet dogs.....	2
Ratchet wheels.....	4
Hammers.....	9
Feed yokes.....	6
Chain yokes.....	8
Relief valves.....	1
Oilers.....	16
Stuffing nuts.....	6
Files.....	24
Brass cups.....	2
Tool boxes.....	12
Extra heavy brass cocks for cylinders.....	5
Iron cylinders.....	0
Padlocks, iron.....	4
Padlocks, brass.....	9
Handled feed nuts.....	7
Testing rods.....	5
Rubber washers for valves.....	45
Rubber gaskets, $7\frac{1}{4}$ -inch.....	6
Rubber for saddles.....	40

The cost of ferrules on hand, as per preceding inventory, is as follows :

2 ½-inch screw ferrules, at 45c.....	\$ 90
3,318 ¾-inch screw ferrules, at 37½c.....	1,231 80
1,120 ¾-inch screw ferrules, at 44¼c.....	495 60
158 1-inch screw ferrules, at 60c.....	94 80
15 ½-inch driving ferrules, at 45c.....	6 75
3,000 ¾-inch driving ferrules, at 45c.....	1,350 00
309 ¾-inch driving ferrules, at 45½c.....	140 59
457 1-inch driving ferrules, at \$1.30.....	594 10
Total value of ferrules on hand.....	\$3,914 54

The cost of screw and smooth bore drills on hand, as per preceding inventory, is as follows :

3 ½-inch screw drills, at \$4 05.....	\$ 12 15
79 ¾-inch screw drills, at 4.05.....	319 85
71 ¾-inch screw drills, at 4.95.....	351 45
22 1-inch screw drills, at 5.85.....	128 70
87 smooth-bore drills of all sizes, at \$1.60.....	139 20
Total value of drills on hand.....	\$ 951 45

Before closing this report permit me to acknowledge my deep obligations to yourself, and to the chiefs of other bureaus, for the many courtesies shown me in the discharge of my official duties.

Respectfully submitted,

HENRY G. NAPER,

Permit Clerk Water Department.

REPORT
OF THE
Bureau of Maps

CITY OF CHICAGO

MAP DEPARTMENT.

CHICAGO, January, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR :—I herewith respectfully submit statement of the work performed in the Map Department during the year 1891, as follows :

	Number of Plats.
Lamp Post Ordinances	1,002
Lamp Post Orders	668
Lamp Post Assessments	334
Street Improvement Assessments	645
Streets and Alley Opening Assessments	78
Street and Alley Opening Ordinances	616
Street Engineer's Estimates	872
Surveys	236
Sidewalk Assessments	1,037
Law Department	639
Miscellaneous Purposes	186
Total	6,313

Five hundred and forty-four new subdivisions of real estate within the city limits and recorded documents pertaining to same have been entered upon the several sets of Atlases in charge of this office, to-wit :

- One set for Map Department.
- One set for House Numbers.
- One set for Special Assessment Department.
- One set for Street Department.

By election held April 7th, 1891, the village of Fernwood was annexed to the city, being the eleventh extension of the city limits and embracing the following described tract of land, to-wit : The west $\frac{1}{2}$ and the west 50 feet of E. $\frac{1}{2}$ of Sec. 9, the E. $\frac{1}{2}$ of the S. E. $\frac{1}{4}$ and the S. E. $\frac{1}{4}$ of the N. E. $\frac{1}{4}$ of Sec. 8, the S. W. $\frac{1}{4}$ and the south 666 feet of the N. W. $\frac{1}{4}$ and the West 50 feet of the S. E. $\frac{1}{4}$, and the west 50 feet of the south 666 feet of the N. E. $\frac{1}{4}$ of Sec. 4 ; all of Town 37, North Range 14 east of the 3rd P. M.

The city of Chicago now covers an area of $181\frac{75}{100}$ square miles, or 116,320 acres.

Very respectfully,

R. A. MANSTEIN,

Superintendent of Map Department.

REPORT
OF THE
Bureau of Sewers

CITY OF CHICAGO

1. *Staphylococcus aureus*

2. *Staphylococcus epidermidis*

3. *Staphylococcus saprophyticus*

BUREAU OF SEWERS.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I herewith submit the Annual Report of the Bureau of Sewers for the year ending December 31, 1891, showing in tabulated form the work done and cost of same, as follows :

For building new sewers and catch-basins.....	\$1,582,990 44
For cleaning sewers and catch-basins.....	123,620 44
For repairing sewers and catch-basins.....	29,758 04
For adjusting to grade man-hole and catch-basin covers on streets being im- proved... ..	66,158 71
For house drains.....	65,231 17
For appropriated salaries	28,417 05
Total.....	<u>\$1,846,165 85</u>

NEW SEWERS AND CATCH-BASINS BUILT DURING THE YEAR 1891 AND
THE COST OF SAME.

LENGTH.	SIZE.	AVERAGE CUT.	AVERAGE COST PER FOOT.	AMOUNT.
10,730	9 inches.	8.5	\$ 1 00	\$ 10,730 00
206,675	12 "	7.9	1 18	243,876 50
149,932	15 "	8.9	1 42	212,903 44
5,004	18 "	9.8	1 65	8,256 60
79,143	2 foot.	8.3	2 28	180,446 04
21,194	2½ "	11.0	2 99	63,370 06
17,214	3 "	11.9	4 12	70,921 68
8,097	3½ "	12.0	4 83	39,108 51
6,683	4 "	12.5	5 76	38,494 08
5,015	4½ "	12.2	5 97 +	29,918 25
3,984	5 "	15.6	7 23	28,804 32
3,064	6 "	17.7	11 05	33,857 20
10,949	7 "	15.4	11 38	124,599 62
6,630	7½ "	12.5	10 57	70,079 10
5,337	8 "	17.9	14 45	77,119 65
7,267	9 "	15.4	14 17	92,973 39
546,918	.	.	.	\$1,325,458 44

Cost of constructing 3,979 catch-basins.\$ 179,055 00
 Cost of excavating 9,492 cubic yards of rock. 28,477 00
 -----\$ 207,532 00
 Expenditures for sewers and catch-basins.\$ 1,532,990 44

TOTAL NUMBER OF MAN-HOLES AND CATCH-BASINS IN PLACE DECEMBER
31, 1891, IN THE CITY LIMITS.

DIVISIONS.	CONSTRUCTED DURING THE YEAR.			Total Built in 1891.	Total Built previous to 1891.	Total in place December 31, 1891.
	SOUTH.	WEST.	NORTH.			
Catch-basins.....	1,204	2,353	422	3,979	26,489	30,468
Man-holes.....	1,267	1,909	560	3,736	29,990	33,726

TOTAL COST FOR THE CONSTRUCTION OF SEWERS AND CATCH-BASINS
AND MAINTAINING SAME SINCE THE ESTABLISHMENT OF THE SEWER-
AGE SYSTEM IN 1855 TO JANUARY 1ST, 1892.

Year.	Lineal feet of Sewers built.	No. of Catch- Basins built.	No. of Man- Holes built.	No. of House Drains put in.	Cost of clean- ing Sewers and Catch-Basins.	Street Inter- sections and repairs of Sewers.	Cost of Construction.
Previous to 1861.	283,586	1,174	2,102	2,194	\$ 5,619 48	No. amts. found on reports.	\$ 665,188 46
1861.....	2,826	18	33	243	1,715 60	\$ 2,951 76	3,617 31
1862.....	15,676	72	66	365	4,897 24	3,024 07	57,036 42
1863.....	39,605	192	204	536	5,065 40	2,058 11	169,527 38
1864.....	25,021	189	183	512	9,417 81	4,597 63	87,221 48
1865.....	29,948	223	168	1,288	13,818 07	7,493 56	137,643 02
1866.....	48,127	327	271	3,732	28,445 16	7,773 65	225,564 53
1867.....	89,681	418	555	3,703	26,540 81	9,581 42	416,730 51
1868.....	47,841	480	293	3,261	26,954 06	11,287 08	197,152 92
1869.....	139,705	771	928	3,979	26,015 68	7,527 16	654,141 26
1870.....	78,166	626	468	5,187	21,464 30	10,954 74	258,664 70
1871.....	50,716	277	357	3,093	17,415 46	42,557 72	153,295 36
1872.....	47,342	245	341	1,435	21,484 16	16,975 40	173,255 76
1873.....	146,702	897	1,015	4,691	31,229 27	29,781 97	450,222 90
1874.....	222,322	1,054	1,474	6,292	36,884 57	21,996 72	587,507 38
1875.....	120,971	958	789	3,365	32,098 23	28,107 40	342,932 89
1876.....	15,248	155	75	1,172	29,341 41	19,803 29	79,545 28
1877.....	64,666	363	431	1,822	35,763 33	16,959 44	291,829 68
1878.....	88,031	492	603	1,544	25,704 37	19,259 49	37,264 97
1879.....	145,381	820	1,043	2,953	29,286 67	10,649 69	130,840 50
1880.....	79,128	271	554	4,196	25,561 48	25,068 11	92,544 08
1881.....	132,076	548	917	4,810	34,512 15	30,967 89	452,310 06
1882.....	98,515	792	725	5,677	33,969 35	26,618 05	224,450 16
1883.....	75,364	835	497	5,963	34,749 74	25,140 81	232,084 33
1884.....	101,547	751	654	5,957	43,678 03	37,893 29	258,029 91
1885.....	118,647	796	854	6,325	46,532 18	45,333 02	203,188 03
1886.....	103,193	734	723	7,441	51,110 46	50,707 64	177,647 24
1887.....	90,584	756	605	8,100	50,264 65	43,789 60	186,496 98
1888.....	104,903	816	674	8,152	52,422 41	53,782 97	228,567 57
1889.....	171,023	1,351	1,190	4,303	61,503 01	63,459 25	350,234 54
Annexed Districts } previous to 1890, {	993,573	6,102	8,620	Estima- Cost of	led cost of const- maintenance not known, {	.....	2,614,224 75
1890.....	379,203	2,986	2,604	9,279	107,873 34	83,388 08	826,718 67
1891.....	†546,918	3,979	3,736	11,312	123,620 44	95,906 75	1,532,990 44
Totals.....	4,696,235	30,468	33,752	132,882	\$1,094,959 32	\$355,395 76	\$12,493,660 42

†Of this amount, 5,897 feet have been taken up and replaced by sewers of larger sizes, leaving in place January 1, 1892, 4,690,338 feet, or 888.321 miles.

Of the above 393.758 miles are constructed of brick, and 494.563 miles are of vitrified clay pipe.

LENGTH AND INTERIOR DIAMETER OF SEWERS IN PLACE, DECEMBER 31, 1891, IN THE DIFFERENT
WARDS OF THE PRESENT CITY LIMITS.

WARDS.	9 Feet.	8 Feet.	7 1/4 Feet.	7 Feet.	6 1/4 Feet.	6 Feet.	5 1/4 Feet.	5 Feet.	4 1/4 Feet.	4 Feet.	3 1/2 Feet.	3 Feet.	2 3/4 Feet.	2 1/2 Feet.	2 Feet.	30 Inch.	18 Inch.	15 Inch.	12 Inch.	9 Inch.	6 Inch.	TOTAL.
1st.								247		1,928		12,327		17,023	15,210			1,870	68,572			121,392
2d.							4,255			670		3,648		18,250	25,260			888	5,530			84,110
3d.										1,070		5,028		24,782	28,117			6,150	10,463			54,581
4th.							1,055		1,291	1,070		5,028		24,782	28,117			6,150	10,463			54,581
5th.							1,360		2,670	4,180		6,966		7,020	34,137			3,688	16,249			130,170
6th.							8,018		3,532	4,975		10,446		21,255	62,722			10,128	30,075			307,689
7th.							5,750		2,800	5,040		4,137		3,683	21,572			4,403	31,409			78,314
8th.									3,955	4,000		1,873		2,545	20,085			4,403	26,209			75,380
9th.									3,675	4,925		4,214		9,971	13,013			15,726	40,367			214,884
10th.							3,380		15,114	12,560		10,773		9,726	31,008			10,773	45,589			214,884
11th.									18,470	10,240		14,050		9,726	31,008			10,773	45,589			214,884
12th.							1,582		1,075	10,240		14,050		9,726	31,008			10,773	45,589			214,884
13th.							2,656		1,955	11,620		9,575		7,555	33,577			4,701	28,757			182,315
14th.							1,400		7,030	3,911		1,373		5,202	40,032			4,230	35,894		116	183,908
15th.							6,823		7,030	3,911		1,373		5,202	40,032			4,230	35,894			183,908
16th.							3,994		2,350	1,628		5,444		12,348	51,884			330	81,153			277,088
17th.							6,817		5,275			2,295		382	16,778			9,371	23,271			70,048
18th.									6,940			4,315			33,074			650	21,493			83,340
19th.							10,775		10,175	9,350		1,023		32,045	32,045			1,014	42,641			100,558
20th.							5,365		2,240	3,000		3,108		7,353	23,019			5,010	13,860			98,432
21st.									2,843	2,510		515		12,010	16,000			1,275	6,845			80,669
22d.							655		655	690		2,179		7,525	22,409			1,528	789			45,748
23d.							2,765					1,962		3,841	25,853			789	34,527			78,625
24th.							5,583		3,157			1,962		3,841	25,853			1,726	33,146			75,001
25th.							5,587		2,591			4,531		1,441	42,292			6,911	35,610			101,915
26th.							1,670		1,855	1,115		8,440		1,430	21,571			16,135	115,341			214,884
27th.							3,520		3,240	10,010		9,651		1,023	21,571			3,880	63,411			222,885
28th.							1,350		3,240	1,016		9,651		1,023	21,571			3,880	63,411			222,885
29th.							550		3,240	1,326		3,400		3,255	6,128			5,874	17,353			54,246
30th.							7,070		2,650	6,380		7,023		6,706	6,128			12,362	23,198			111,642
31st.							2,984		7,812	6,785		6,650		12,117	26,272			24,151	86,344			251,919
32d.							1,343		1,257	1,354		2,400		15,816	11,959			10,630	60,854			51,632
33d.							1,327		2,200	19,017		4,736		3,965	10,154			4,119	49,240			272,690
34th.							1,676		2,848	2,705		2,451		3,965	10,154			658	8,658			130,057
35th.									2,640	5,897		222		2,152	86,268			13,230	34,597			130,057
TOTAL.	22,700	13,102	11,606	26,068	7,477	48,141	17,303	115,740	3,533	108,546	173,377	87,880	3,338	161,778	1,320	255,433	13,550	1,007,246	1,620,729	73,457	17,030	4,600,338

SEWERS CONSTRUCTED DURING THE YEAR 1891 IN THE
WEST DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Adams	St. Louis avenue	Homan avenue	1	724
Adams	Homan avenue	Spaulding avenue	1½	680
Adams	Central Park avenue	St. Louis avenue	2	625
Adams	Spaulding avenue	Colorado avenue	2	555
Augusta	California avenue	Rockwell	2	1,296
Avers avenue	Ogden avenue	North	1	550
Attrill	Milwaukee avenue	Stave	1	433
Albany avenue	Chicago avenue	Ohio	1	1,447
Albany avenue	226 ft. N. of Congress	Jackson	1	627
Albany avenue	Twelfth	Lexington avenue	1	1,946
Albany avenue	Flournoy	Harrison	1	332
Albany avenue	Sixteenth	Douglas Park boulevard	1	1,232
Albany avenue	Kinzie	Central Park boulevard	1½	489
Albany avenue	Congress	North	1½	226
Albany avenue	Lexington avenue	Flournoy	1½	332
Albany avenue	Ohio	Central Park boulevard	2	788
Armitage avenue	Keeney avenue	Howard avenue	2½	600
Armitage avenue	Crawford avenue	Keeney avenue	3	1,327
Armitage avenue	Hamlin avenue	Crawford avenue	3½	1,328
Armitage avenue	Central Park avenue	Hamlin avenue	4	1,350
Armitage avenue	Kedzie avenue	Central Park avenue	4½	2,630
Byron	California avenue	Humboldt boulevard	1	1,140
Baldwin	Kinzie	North	1	268
Bonney avenue	Twenty-sixth	Thirtieth	1	2,015
Bonney avenue	Harrison	North	1	330
Bonney avenue	Twenty-second	Ogden avenue	1½	532
Barckley	Thomas	Division	1	623
Barckley	Augusta	Thomas	1½	665
Berlin	Western avenue	Leavitt	1	1,295
Bingham	763 ft. N. of Armitage ave.	Cornelia	1	423
Bingham	Armitage avenue	North	1½	763
Binzo	Elston avenue	Lister	1½	315
Belmont avenue	Elston avenue	Milwaukee avenue	7	6,982
Columbia place	Milwaukee avenue	Leavitt	1	674
Campbell avenue	Twelfth	South	1	512
Clarinda	Ashland avenue	Wood	1	1,080
Courtland	Western avenue	Rockwell	1	1,300
California avenue	Berlin	Milwaukee avenue	1	195
California avenue	Fullerton avenue	South of Berlin	1½	401
California avenue	Chicago avenue	Grand avenue	3	441
Churchill	Robey	East of Leavitt	1	1,145
Chicago avenue	Central Park boulevard	Albany avenue	1	551
Chicago avenue	Kedzie avenue	Albany avenue	1½	423
Coblentz	Robey	Leavitt	1	1,301
Chancey	Point	East	1	230
Carroll avenue	318 ft. E. of Homan avenue	East	1½	336
Clarkson avenue	Armitage avenue	Palmer square	1½	1,176
Clarkson avenue	Armitage avenue	Bloomington road	1½	1,308
Cornelia	Milwaukee avenue	Point	1	899
Central Park avenue	Central Park boulevard	Kinzie	1½	529
Central Park avenue	Lake	Kinzie	1½	1,084
Central Park avenue	Ohio	Central Park boulevard	2	755
Congress	Washtenaw avenue	West	2	254
Congress	Washtenaw avenue	Rockwell	1½	575
Collins court	Kedzie avenue	Albany avenue	1½	671

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Dickens	California avenue	Humboldt boulevard ...	1	1,140
Dudley	Hervey	Asylum place.....	1	630
Drake avenue	Ohio	Central Park boulevard.	1½	575
Diversey avenue.....	River	Kedzie avenue	7½	6,630
Dickey	400 ft. W. of Homan avenue.	200 ft. E. of Homan av.	1	666
N.S. Douglas Park boul.	Kedzie avenue.....	Albany avenue.....	1½	650
S.S. Douglas Park boul.	Spaulding avenue.....	Albany avenue.....	1½	1,306
Ems.	Breslau	Western avenue.....	1	257
Ems.	Leavitt	Leipzig	1	286
Ems.	Breslau	Leipzig	1½	753
Elkgrove	Hervey	C. & N.-W. R'y.....	1	560
Frankfort	Western avenue.....	Leavitt	1	1,236
Frankfort	Leavitt	Robey	1	1,282
Fairfield avenue	Augusta	Iowa	1	666
Fulton	Homan avenue	E. of Central Park ave..	1	1,081
Fillmore	Washtenaw avenue.....	East	1	575
Fillmore	St. Louis avenue	Homan avenue	1	675
Fillmore	Albany avenue	Francisco	1½	1,340
Fillmore	Spaulding avenue	Homan avenue	1½	660
Fillmore	Central Park avenue.....	St. Louis avenue.....	1½	660
Fillmore	Kedzie avenue	Spaulding avenue.....	2	665
Fillmore	California avenue.....	Francisco	2	638
Fourteenth.....	Hoyne avenue.....	Leavitt	1	674
Fourteenth.....	Robey	Hoyne avenue.....	1½	658
Flournoy	Albany avenue	Sacramento avenue.....	1	671
Forrest avenue	Fullerton avenue.....	Humboldt boulevard.....	1½	1,177
Fifteenth	Kedzie avenue	Spaulding avenue.....	2	632
Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,200
Francis place	California avenue.....	Point	1	454
Fortieth	River	Twenty-second	9	7,267
Fortieth	Twenty-second	Twelfth	8	5,337
Fortieth	Twelfth	Jackson	7	3,967
Fortieth	Jackson	Lake	6	3,064
Fortieth	Lake	Kinzie	5	1,100
Grand avenue	Augusta	Division	5	2,884
Grand avenue	Chicago avenue.....	California avenue.....	1	970
Grand avenue	Kedzie avenue	Augusta	1½	973
Grand avenue	Kedzie avenue	Chicago avenue.....	2	1,786
Grand avenue	California avenue.....	695 ft. E. of Washtenaw avenue.	2	1,500
Grenwich	Hoyne avenue.....	Leavitt	1	565
Greenwood avenue.....	Oakley avenue	Western avenue.....	1	662
Grenshaw avenue.....	Homan avenue	West	1	140
Grenshaw avenue.....	Spaulding avenue.....	Homan avenue	1½	660
Grenshaw avenue.....	Kedzie avenue	Spaulding avenue.....	2	674
Gloy place	Elston avenue.....	Lister	1½	290
Hirsch	Davis	West	1	97
Hirsch	California avenue.....	Western avenue.....	1	1,994
Hoyne avenue.....	Kosciusko	Asylum place.....	1	503
Hoyne avenue.....	Cornelia	North	1	229
Hoyne avenue.....	Emma	South	1	229
Hoyne avenue.....	Cornelia	Iowa	1½	294
Hoyne avenue.....	Fullerton avenue	Kosciusko	2	790
Harvard	Sacramento avenue	Albany avenue.....	1	661
Harvard	Washtenaw avenue	P. C. & St. L. R. R....	1½	572
Harvard	Campbell avenue	P. C. & St. L. R. R....	1½	630

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Harvard	Francisco	Sacramento avenue....	1½	631
Harvard	Kedzie avenue	Albany avenue....	2	701
Harvard	California avenue	Francisco	2	667
Henry court.....	Point	East	1	230
Homan avenue	Wisconsin Central R. R. .	South.	1	651
Homer	Western avenue	Washtenaw avenue....	1	1,960
Homan avenue	Fulton	Kinzie	1½	615
Humboldt	California avenue	Rockwell.....	1	1,303
Humboldt	Wabansia avenue....	Armitage avenue....	1½	1,889
Heine	North avenue	Armitage avenue....	1½	2,572
Hoffman avenue.....	Diversey	Humboldt boulevard ..	1½	1,232
Hoffman avenue.....	Fullerton avenue	Humboldt boulevard ..	1½	1,188
Hoffman avenue.....	Fullerton avenue	Milwaukee avenue ..	1½	1,650
Harrison	Spaulding avenue.....	Homan avenue	1½	666
Harrison	Central Park avenue	Douglas Park boulevard.	1½	1,108
Harrison	Kedzie avenue	Spaulding avenue....	2	680
Hamlin avenue.....	Ohio	Kinzie	1½	1,286
Hamlin avenue.....	Nineteenth.....	North.....	2½	750
Hamlin avenue.....	Twenty-second	Nineteenth.....	3	1,268
Hastings.....	Lincoln	West	1½	533
W. S. Humboldt blvd..	Armitage avenue	Palmer square.....	1½	1,175
W. S. Humboldt blvd..	Fullerton avenue	Palmer square.....	1½	1,170
W. S. Humboldt blvd..	Fullerton avenue	Logan square.....	1½	1,166
E. S. Humboldt blvd..	Logan square	Linden place	1½	280
E. S. Humboldt blvd..	Shakespeare	Palmer square	1½	344
E. S. Humboldt blvd..	Armitage avenue	Shakespeare	2	1,144
E. S. Humboldt blvd..	Fullerton avenue	Palmer square	1½	1,200
E. S. Humboldt blvd..	Fullerton avenue	Linden place	2	878
Iowa	California avenue.....	Fairfield avenue	1½	285
Iowa	Rockwell	Fairfield avenue	1	991
Johnston avenue.....	550 ft. W. of Thomas ..	Humboldt boulevard ..	1	670
Johnston avenue.....	Thomas	West	1½	550
Johnston avenue.....	Thomas	California avenue	2	1,297
Julia court	Stave	West	1	230
Kedzie avenue.....	Bartlett	Weage	1	330
Kedzie avenue.....	Norwood	Bartlett	1½	325
Kedzie avenue.....	Courtland	Wabansia avenue	1½	1,275
Kedzie avenue.....	Dickens	Palmer square.....	1½	520
Kedzie avenue.....	Armitage avenue	Courtland	2	668
Kedzie avenue.....	North avenue	Wabansia avenue	2	660
Kedzie avenue.....	Armitage avenue	Dickens	2	660
Kedzie avenue.....	Wheaton avenue	Norwood	2	1,018
Kedzie avenue.....	Augusta	Wheaton avenue	2½	975
Kosciusko	Sobieski	Robey	1	315
Kosciusko	St. Hedwig's	Leavitt	1	335
Kosciusko	St. Hedwig's	Sobieski	1½	670
Kuehl place	Elston avenue	Lister	1½	335
Lawndale avenue.....	Harrison	North.....	1	447
Lawndale avenue.....	Twenty-seventh.....	Twenty-eighth.....	1½	669
Lawndale avenue.....	Ogden avenue	South.....	1½	80
Lawndale avenue.....	Ohio	Kinzie	1½	1,283
Lawndale avenue.....	Twenty-eighth	Thirty-first.....	2	1,336
Lawndale avenue.....	Twenty-sixth	Twenty-seventh.....	1	682
Lawndale avenue.....	River	Thirty-first.....	2½	1,180
Lexington avenue.....	Harrison	North.....	1½	637

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Lexington avenue.....	Sacramento avenue.....	Francisco.....	1	666
Lexington avenue.....	Kedzie avenue.....	Albany avenue.....	2	701
Lincoln.....	Twelfth.....	Thirteenth.....	1	552
Leavitt.....	Rhine.....	Pleasant place.....	1	275
Leavitt.....	Wabansia avenue.....	South.....	1	362
Leavitt.....	Jane.....	Thomas.....	1½	333
Leavitt.....	Fullerton avenue.....	North.....	2	110
Leavitt.....	Fullerton avenue.....	Rhine.....	2	525
Lubeck.....	Western avenue.....	Robey.....	1	2,535
Lister.....	Asylum place.....	Robey.....	1	1,375
Laurel.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,175
Linden.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,182
Lill avenue.....	Western avenue.....	Station.....	1	1,065
S. S. Logan square.....	Humboldt boulevard.....	Milwaukee avenue.....	1	393
Millard avenue.....	310 ft. S. of Twenty-eighth	South.....	1	132
Maplewood avenue.....	Division.....	Hirsch.....	1	1,212
Maplewood avenue.....	North avenue.....	Bloomington road.....	1½	1,156
Maplewood avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,200
Mozart.....	North avenue.....	Armitage.....	1½	2,572
Mozart.....	Armitage avenue.....	Shakespeare.....	1½	1,175
Montana.....	Western avenue.....	Station.....	1½	375
Myrtle.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,180
Moffat.....	Western avenue.....	Rockwell.....	1	1,298
Milwaukee avenue.....	1000 ft. N. of Fullerton ave.	Logan square.....	2½	894
Milwaukee avenue.....	Fullerton avenue.....	North.....	3	1,000
Nicolett avenue.....	Park place.....	West.....	1	205
Nebraska avenue.....	Armitage avenue.....	Palmer square.....	1½	1,176
Nebraska avenue.....	Armitage avenue.....	Bloomington road.....	1½	1,308
Norman avenue.....	North avenue.....	Bloomington road.....	1½	1,258
North avenue.....	Keeney avenue.....	Grand avenue.....	2½	1,200
North avenue.....	Hamlin avenue.....	Keeney avenue.....	3	2,649
North avenue.....	Central Park avenue.....	Hamlin avenue.....	3½	1,354
North avenue.....	Homan avenue.....	Central Park avenue.....	4	1,332
Oakley avenue.....	Fullerton avenue.....	Ems.....	2	1,008
Oakley avenue.....	Huron.....	Superior.....	1	333
Oakley avenue.....	Ohio.....	North.....	1	251
Oakley avenue.....	Chicago avenue.....	Superior.....	1½	333
Oakley avenue.....	Fullerton avenue.....	Station.....	2	572
Ohio.....	Kedzie avenue.....	Central Park boulevard.....	3	1,073
Ohio.....	Springfield avenue.....	Harding avenue.....	3	333
Ohio.....	Springfield avenue.....	Lawndale avenue.....	3½	1,330
Ohio.....	St. Louis avenue.....	Lawndale avenue.....	4	1,330
N. S. Ogden avenue.....	Hamlin avenue.....	West.....	1½	495
N. S. Ogden avenue.....	Kedzie avenue.....	Spaulding avenue.....	1½	695
N. S. Ogden avenue.....	Central Park avenue.....	Hamlin avenue.....	1½	1,452
N. S. Ogden avenue.....	Central Park avenue.....	St. Louis avenue.....	2	730
N. S. Ogden avenue.....	Homan avenue.....	St. Louis avenue.....	1½	726
S. S. Ogden avenue.....	Hamlin avenue.....	Central Park avenue.....	1	1,460
S. S. Ogden avenue.....	Homan avenue.....	Central Park avenue.....	1½	1,450
Pulaski.....	Leavitt.....	St. Hedwig's.....	1	335
Pulaski.....	Hoyne avenue.....	St. Hedwig's court.....	1½	332
Perry.....	Cherry place.....	Edbrooke place.....	1	301
Perry.....	Bremen.....	Edbrooke place.....	1½	298
Perry.....	Milwaukee avenue.....	Cherry place.....	2	526
Perry.....	Fullerton avenue.....	Bremen.....	2	833

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Polk	Sacramento avenue	Francisco	1	668
Polk	Washtenaw avenue	East	1	575
Polk	Albany avenue	Sacramento avenue	1 1/4	633
Polk	Kedzie avenue	Albany avenue	2	701
Pleasant place	Leavitt	100 ft. W. of Oakley ave.	1	798
Prindiville	Stave	Milwaukee avenue	1	434
Point	Francis	California avenue	1 1/4	497
Point	Armitage avenue	Francis	2	564
Powell avenue	Alice place	Edbrooke place	1 1/4	600
Powell avenue	Milwaukee avenue	Edbrooke place	2	1,308
Powell avenue	Fullerton avenue	Alice place	2	580
Potomac avenue	California avenue	Rockwell	2	1,300
Paulina	River	Blue Island avenue	3	2,230
S. S. Palmer square	Humboldt boulevard	Kedzie avenue	1	1,262
N. S. Palmer square	Humboldt boulevard	Kedzie avenue	1	1,400
Rice	Washtenaw avenue	Rockwell	1	653
Rosebud	Wabansia avenue	Bloomingtondale road	1	440
Rhine	Western avenue	Leavitt	1	1,290
Rockwell	Potomac	Bismark	1	339
Rockwell	Werder	South	1	236
Rockwell	Humboldt	Augusta	1	340
Rockwell	Bismark	Thompson	1 1/4	991
Rockwell	Potomac	Werder	1 1/4	316
Rockwell	Thomas	Humboldt	1 1/4	268
Rockwell	North avenue	Thompson	2	614
Sixteenth	Kedzie avenue	Albany avenue	2	672
Sixteenth	Homan avenue	Turner avenue	1 1/4	335
Superior	Western avenue	Rockwell	1	1,343
Superior	Leavitt	537 ft. W. of Oakley ave.	1	1,155
Sobieski	Asylum place	C. & N.-W. R'y.	1	775
St. Hedwig's	Pulaski	Asylum place	1	1,035
Sawyer avenue	Sixteenth	Ogden avenue	1	542
Sawyer avenue	Douglas Park boulevard	Sixteenth	1	1,214
Sawyer avenue	Twenty-second	North	1	300
Shakespeare	California avenue	Humboldt boulevard	1	1,140
Sacramento avenue	Twelfth	Fillmore	1	613
St. Louis avenue	Ogden avenue	Twenty-second	1	1,340
St. Louis avenue	Huron	Chicago avenue	1 1/4	661
St. Louis avenue	Fulton	Kinzie	1 1/4	615
Sheridan avenue	Twelfth	Fillmore	1	570
Sheridan avenue	North avenue	Bloomingtondale road	1 1/4	1,310
Station	Leavitt	Western avenue	1	1,715
St. Helen	Stave	West	1	230
St. George court	Stave	Milwaukee avenue	1	434
St. Mary's court	Stave	West	1	230
St. Paul	Western avenue	Rosebud	1 1/4	875
Stave	Armitage avenue	Julia court	2	1,429
Stave	California avenue	Julia court	1 1/4	575
Seymour	Armitage avenue	Courtland	2	636
Seymour	Bloomingtondale road	Courtland	1 1/4	645
Thomas	Leavitt	Hoyne avenue	1	664
Thomas	Dudley	West	1	180
Troy	Twelfth	Douglas Park boulevard	1	1,188
Troy	Chicago avenue	Ohio	1	1,331
Trumbull avenue	Ohio	Huron	2	664

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Trumbull avenue	Ogden avenue	South	1	1,397
Twenty-first	Western avenue	West	1½	501
Twenty-first	Rockwell	Washtenaw avenue	1	674
Twenty-first	California avenue	Washtenaw avenue	1½	625
Twenty-first	Homan avenue	St. Louis avenue	2	614
Twenty-first	California avenue	Douglas Park boulevard	2	864
Twenty-third	Bonney avenue	East	1	150
Twenty-third	Hamlin avenue	East	1	150
Twenty-seventh	Lawndale avenue	Bonney avenue	1½	366
Twenty-ninth	Lawndale avenue	Bonney avenue	1½	333
Thirtieth	Lawndale avenue	Bonney avenue	1½	366
Thirteenth	Kedzie avenue	Albany avenue	1½	650
Turner avenue	Sixteenth	Ogden avenue	1	844
Talman avenue	Thompson	Hirsch	1½	664
Truro	Kedzie avenue	Albany avenue	1½	671
Taylor	Kedzie avenue	Albany avenue	2	702
Thompson	Oakley avenue	East	1	102
Thompson	Leavitt	West	1	100
Van Buren	Spaulding avenue	Homan avenue	1½	672
Van Buren	Spaulding avenue	Kedzie avenue	2	678
Wabansia avenue	Leavitt	Milwaukee avenue	1	300
Wabansia avenue	Western avenue	Leavitt	2	1,300
Werder	California avenue	Rockwell	1	1,188
Washtenaw avenue	Rice	Chicago avenue	1	285
Washtenaw avenue	Division	Hirsch	1½	1,225
Washtenaw avenue	Augusta	Rice	1½	992
Washtenaw avenue	Twelfth	North	1½	665
Wood	Asylum place	South	1½	415
Western avenue	Evergreen	St. Helen court	1½	565
Western avenue	Franklin	North	1½	446
Western avenue	Fullerton avenue	Humboldt boulevard	2	1,183
Western avenue	Evergreen avenue	Franklin avenue	2	1,300
TOTAL				280,198

SEWERS CONSTRUCTED DURING THE YEAR 1891 IN THE
SOUTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley E. of Vincennes rd	Seventy-third.....	Seventy-fourth.....	1	665
Alley S. of Fifty-fifth..	Morgan	Aberdeen	1	669
Alley W. of Halsted ...	Seventy-fifth	Seventy-seventh	¾	1,200
Alley W. of Green.....	Seventy-fifth	Seventy-seventh	¾	1,200
Alley W. of Peoria.....	Seventy-fifth	Seventy-seventh	¾	1,200
Alley W. of Sangamon ..	Seventy-fifth	Seventy-seventh	¾	1,200
Alley E. of Drexel ave..	Sixty-third	Sixty-fifth	¾	1,275
Alley W. of Drexel ave.	Forty-ninth	South of Fiftieth	1	1,226
Alley E. of Grand blvd.	Forty fifth	Boulevard place.....	1	738
Armour avenue.....	Fifty-third	South.....	1	263
Archer avenue.....	Blanchard avenue	C., St. L. & P. R. R. ...	1	1,213
Atlantic	Forty-ninth	Fiftieth	1	892
Ashland avenue	Egan avenue	River	1¼	749
Bristol.....	Wentworth avenue	C., R. I. & P. R'y	1	502
Boulevard place	350 ft. W. of Vincennes ave.	West	1¼	289
Boulevard place	289 ft. W. of Vincennes ave.	West	1	50
Blanchard	Thirty-fifth	Thirty-seventh	3	1,344
Blanchard	Thirty-seventh	Thirty-ninth	2½	1,325
Calumet avenue.....	Thirty-eighth	South.....	1	342
Calumet avenue.....	Forty-fifth	Forty-sixth	1¼	665
Calumet avenue.....	Forty-sixth	Forty-seventh	1	630
Calumet avenue.....	Thirty-ninth	Fortieth.....	1¼	660
Calumet avenue.....	Fortieth	Forty-first.....	2	635
Champlain avenue.....	Forty-ninth	Fiftieth	1	635
Carpenter.....	Fifty-sixth	North.....	1¼	338
Chestnut.....	Halsted	Union avenue.....	1¼	517
Chestnut.....	Union avenue	East	1	132
California avenue	Thirty-fifth	Thirty-seventh	3	1,393
California avenue	Thirty-seventh	Thirty-ninth	2½	1,330
Daley	Thirty-fifth	Thirty-seventh	1	1,276
Daley	Thirty-seventh	Thirty-eighth	1	590
Drexel avenue.....	Alley S. of Sixtieth	Sixty-third	1	1,760
Erie avenue.....	Ninetieth	South	1¼	253
Erie avenue.....	353 ft. N. of Eighty-ninth	Eighty-eighth	1¼	317
Erie avenue.....	Eighty-seventh	Eighty-eighth	1	637
Erie avenue.....	253 ft. S. of Ninetieth ..	Ninety-first.....	1	367
Erie avenue.....	Eighty-ninth	North.....	2	353
Emerald avenue.....	Seventy-first	Seventy-third	1	1,303
Emerald avenue.....	Fifty-second	Fifty third.....	1	675
Emerald avenue.....	Fifty first	Fifty-second	1¼	663
Emerald avenue.....	Fifty-third	Fifty-fourth	1¼	565
Ellis avenue.....	Alley S. of Sixtieth	Sixty-third	1	1,760
Ellis avenue.....	Fifty-sixth	Fifty-seventh	2	663
East End avenue	Fifty-first	North.....	2	223
Eighty-eighth	Mackinaw avenue	Buffalo avenue.....	1	386
Fortieth court.....	Wallace	Wright	1	669
Forty-first	Wallace	Wright	1	669
Forty-third	Dearborn	West	1	235
Forty-third	State	Dearborn	1¼	370
Forty-third	Ashland avenue	Paulina	2½	650
Forty-sixth	Cottage Grove avenue	Vincennes avenue	1	1,194
Forty-sixth	Cottage Grove avenue	Alley W. of Drexel ave.	1¼	357
Forty-sixth	Vincennes avenue.....	Alley E. of Grand blvd.	1¼	508
Forty-seventh	Stewart avenue.....	West	1	286
Forty-seventh	Prairie avenue.....	State	1	1,487

SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Forty-seventh	Vincennes avenue	Cottage Grove avenue	1	1,862
Forty-seventh	Vincennes avenue	Alley E. of Grand blvd.	1 1/4	497
Forty-seventh	Prairie avenue	Alley W. of Grand blvd.	1 1/4	581
Forty-eighth	Halsted	Wallace	1	1,293
Forty-eighth	Center avenue	Aberdeen	2	666
Fiftieth	Halsted	Winter	1	595
Fiftieth	St. Lawrence avenue	Champlain avenue	1 1/4	340
Fiftieth	Cottage Grove avenue	Alley W. of Drexel blvd.	1 1/4	360
Fifty-third	Ashland avenue	Laflin	2	630
Fifty-third	Carpenter	Morgan	1	298
Fifty-third	Center avenue	Carpenter	2	995
Fifty-fourth	Justine	Laflin	2	336
N. side of Fifty-fifth	Lake avenue	Cottage Grove avenue	1	3,800
S. Side of Fifty-fifth	Lake avenue	Cottage Grove avenue	1	3,816
Fifty-seventh	Carpenter	Morgan	1	347
Fifty-seventh	Sherman	Wallace	1 1/4	320
Fifty-seventh	Ada	West	1 1/4	240
Fifty-seventh	School	Tracy avenue	1 1/2	290
Fifty-seventh	Halsted	Sherman	2	958
Fifty-seventh	Center avenue	Ada	2	1,019
Fifty-seventh	Center avenue	Carpenter	2	995
Fifty-eighth	Halsted	Sherman	2	973
Fifty-eighth	School	Tracy avenue	1 1/4	310
Fifty-eighth	Tracy avenue	Stewart avenue	1	318
Fifty-ninth	Ada	Loomis	1	343
Fifty-ninth	Center avenue	Ada	2	995
Fifty-ninth	Ashland avenue	Loomis	2	1,335
Forrestville avenue	Fiftieth	Fifty-first	2	668
Forrestville avenue	Forty-ninth	Fiftieth	1 1/4	665
Forrestville avenue	Forty-eighth	Forty-ninth	1	628
Green	Sixty-fourth	Sixty-fifth	1	666
Green	Fifty-sixth	Fifty-seventh	1	670
Green	Sixty-seventh	Sixty-eighth	1 1/4	668
Green	Sixty-third	Sixty-fourth	1 1/4	664
Grant avenue	Thirty-fifth	Thirty-ninth	1	2,581
Geneva	California avenue	Grant avenue	1	675
Geneva	Grant avenue	Blanchard	1 1/4	665
Gorden	La Salle	West	1	163
Hickling	Halsted	Peoria	1 1/4	620
Hickling	Alley E. of Morgan	Peoria	1	470
Hart	Thirty-seventh	Thirty-eighth	1	608
Hart	Thirty-eighth	Thirty-ninth	1 1/4	638
Haven	Shields avenue	West	1	210
Halsted	Seventy-seventh	Eighty-fifth	2	5,318
Halsted	451 ft. S. of Seventy-fifth	Seventy-seventh	2 1/2	1,125
Indiana avenue	Fifty-first	Fifty-second	1 1/4	635
Indiana avenue	Fifty-second	South	1	552
Justine	Fifty-third	South	1	263
Joseph	Grant	East	1	273
Joseph	California avenue	Pearson avenue	1	1,999
Joseph	California avenue	Grant avenue	1 1/4	664
Jackson avenue	Fifty-fourth	Fifty-fifth	1 1/4	590
Jackson avenue	Fifty-third	Fifty-fourth	1	676
Kenwood place	Vincennes avenue	Alley E. of Grand blvd.	1 1/4	502
Leggate	Thirty-ninth	Joseph	1	343

SOUTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Leggate	Thirty-sixth	Smith	1 1/4	350
Leggate	Thirty-eighth	Joseph	1 1/4	327
Lafin	Fifty-third	Alley S. of Fifty-fifth	1	1,168
Lincoln	Thirty-fourth	Thirty-fifth	2	632
Morgan	Sixtieth	Sixty-first	1	660
Morgan	Sixty-second	Sixty-third	1	660
Morgan	Sixty-fourth	Sixty-fifth	1	666
Morgan	Fiftieth	Fifty-first	1	670
Morgan	Fifty-second	Fifty-fourth	1	1,392
Morgan	Sixty-seventh	Sixty-eighth	1 1/4	670
Morgan	Sixty-first	Sixty-second	1 1/4	670
Morgan	Forty-ninth	Fiftieth	1 1/4	650
Morgan	Fifty-first	Fifty-second	1 1/4	670
Morgan	Sixty-third	Sixty-fourth	1 1/4	668
Morgan	Forty-seventh	Forty-ninth	2	1,370
Mackinaw avenue	Ninetieth	Alley N. of Ninety-first	1	478
Mackinaw avenue	100 ft. S. of Eighty-eighth	Eighty-seventh	1	774
Mackinaw avenue	266 ft. N. of Ninetieth	100 ft. S. of Eighty-Eighth	1 1/4	926
Mackinaw avenue	Ninetieth	North	2	266
Niagara	Halsted	Winter	1	595
Peoria	Sixty-fourth	Sixty-fifth	1	666
Peoria	Fifty-seventh	Alley S. of Fifty-fifth	1	1,024
Peoria	Sixty-seventh	Sixty-eighth	1 1/4	669
Peoria	Sixty-third	Sixty-fourth	1 1/4	664
Pearson	Smith	Thirty-seventh	1	250
Pearson	Williams	Thirty-seventh	1	270
Pearson	Joseph	Thirty-ninth	1	339
Pearson	Thirty-sixth	Smith	1 1/4	332
Pearson	Joseph	William	1 1/4	654
Paulina	Forty-eighth	Forty-ninth	1 1/4	672
Paulina	Forty-seventh	Forty-eighth	1 1/2	667
Poplar avenue	Stearns	South	2	817
Robertson avenue	Hope avenue	Star avenue	1	190
Sangamon	Sixty-fourth	Sixty-fifth	1	666
Sangamon	Sixty-second	Sixty-third	1	678
Sangamon	Sixty-seventh	Sixty-eighth	1 1/4	671
Sangamon	Sixty-third	Sixty-fourth	1 1/4	664
Sixtieth	Carpenter	West	1	234
Sixtieth	Halsted	Winter	1 1/4	621
Sixtieth	Morgan	Carpenter	1 1/4	329
Sixtieth	Halsted	Morgan	1 1/2	1,290
Sixty first	Winter	East	1	25
Sixty-first	Halsted	Winter	1 1/4	625
Sixty-first	Center avenue	Aberdeen	2	665
Sixty-first	Halsted	Aberdeen	2 1/2	1,950
Sixty-third	Sherman	Stewart avenue	2	1,535
Sixty-third	Center avenue	Aberdeen	2	668
Sixty-third	Halsted	Sherman	2 1/2	1,070
Sixty-third	Halsted	Aberdeen	2 1/2	2,000
Sixty-fifth	Aberdeen	Centre avenue	2	665
Sixty-fifth	Halsted	Aberdeen	2 1/2	1,971
Sixty-sixth	Winter	Sherman	1	491
Seventy-third	Perry	Stewart avenue	2 1/2	2,000
Seventy-third	Halsted	Stewart avenue	3	2,400
Seventy-sixth	Halsted	Morgan	1 1/4	1,320

SOUTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Star avenue.....	Robertson avenue	South.....	1	720
Sacramento avenue	Joseph.....	Thirty-ninth.....	1	336
Sacramento avenue	Thirty-sixth	Smith.....	1½	352
Sherman.....	Sixty-third court.....	Sixty-fourth	1	339
School.....	370 ft. N. of Root.....	Fortieth.....	1	554
School.....	Forty-fifth	Forty-sixth	1	535
School.....	Thirty-ninth.....	Fortieth.....	1½	600
St. Lawrence avenue.....	Forty-seventh	Forty-ninth.....	1	1,331
St. Lawrence avenue.....	Forty-sixth	Forty-seventh	1½	665
St. Lawrence avenue.....	Fiftieth.....	Fifty-first.....	2	665
St. Lawrence avenue.....	Forty-fifth	Forty-sixth	2	664
St. Lawrence avenue.....	Forty-ninth	Fiftieth.....	1½	664
School.....	Root.....	North.....	1½	370
School.....	Forty-third	Layton.....	1½	1,010
Sacramento avenue.....	Joseph.....	William.....	1½	654
Smith.....	Grant avenue	Pearson.....	1	2,671
Smith.....	Blanchard	Grant avenue.....	1½	665
Stewart avenue.....	Sixty-ninth	North.....	1½	75
Tracy avenue.....	Fifty-ninth	North.....	1	395
Tracy avenue.....	Fifty-sixth	Fifty-seventh	1½	370
Thirty-third	Wallace.....	Butler.....	1	635
Thirty-fourth	Lincoln.....	Wood.....	1	627
Thirty-fourth court.....	Lincoln.....	Wood.....	1	628
Thirty-fifth	Blanchard	California avenue.....	4	1,336
Thirty-fifth	Blanchard	Western avenue.....	4½	1,350
Thirty-sixth	California avenue.....	Grant avenue.....	1	666
Thirty-sixth	100 ft. E. of Ward	E. line of Hart avenue.....	1	369
Thirty-sixth	Grant avenue	Hart avenue.....	1½	1,265
Thirty-sixth	California avenue.....	Pearson.....	2	2,040
Thirty-eighth	California avenue.....	Grant avenue.....	1	674
Thirty-eighth	Grant avenue	Blanchard	1½	660
Thirty-eighth	California avenue.....	Pearson.....	2	2,040
Thirty-eighth	Archer avenue.....	Blanchard avenue.....	2	777
Thirty-ninth	California avenue.....	Grant avenue.....	1	682
Thirty-ninth	Hart avenue.....	Western avenue.....	1½	647
Thirty-ninth	Grant avenue.....	Blanchard avenue.....	1½	661
Thirty-ninth	Sacramento avenue.....	Pearson.....	1½	684
Thirty-ninth	Hart avenue.....	Blanchard avenue.....	2	661
Thirty-ninth	California avenue.....	Sacramento avenue.....	2	1,325
Throop.....	Forty-seventh	Forty-ninth.....	1½	1,303
Vincennes place.....	Vincennes avenue	Alley E. of Grand blvd.....	1½	470
Williams.....	California avenue	Grant avenue.....	1	676
Williams.....	Blanchard avenue.....	Grant avenue.....	1½	665
Williams.....	Sacramento avenue	Pearson.....	1	668
Ward.....	Thirty-ninth.....	Archer avenue.....	1	575
Ward.....	Thirty-fifth	Thirty-sixth	1½	670
Wharton avenue.....	Fifty-eighth	Fifty-ninth.....	1	629
Wharton avenue.....	Alley S. of Sixtieth	Sixty-third	1	1,760
Wharton avenue.....	S. of Fifty-sixth	Fifty-eighth	1½	809
Wharton avenue.....	Fifty-sixth	South.....	2	520
Wright.....	Thirty-ninth.....	Root.....	3	1,703
TOTAL .....	.....	.....	.....	175,948

SEWERS CONSTRUCTED DURING THE YEAR 1891 IN NORTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley W. of Arlington..	Wilson.....	South.....	¾	140
Alley W. of Arlington..	Sunny Side avenue.....	North.....	¾	430
Alley W. of Arlington..	Leland avenue.....	Wilson avenue.....	1	575
Alley W. of Arlington..	Leland avenue.....	Lawrence avenue.....	1½	650
Alley W. of Pemberton..	Leland avenue.....	Lawrence avenue.....	2	600
Alley W. of Pemberton..	Leland avenue.....	Sunny Side avenue.....	1½	1,365
Alley W. of Malden....	Lawrence avenue.....	Leland.....	1	700
Alley W. of Malden....	Sunny Side avenue.....	North.....	¾	580
Alley W. of Malden....	Leland avenue.....	Wilson avenue.....	¾	565
Alley W. of Beacon....	Lawrence avenue.....	Wilson avenue.....	¾	1,240
Alley W. of Beacon....	Sunny Side avenue.....	North.....	¾	600
Alley W. of Dover....	Lawrence avenue.....	Leland avenue.....	1	660
Alley W. of Dover....	Leland avenue.....	Wilson avenue.....	¾	580
Alley W. of Dover....	Wilson avenue.....	South.....	¾	500
Argyle.....	Linden avenue.....	Southport avenue.....	1	955
Argyle.....	Southport avenue.....	North Clark.....	1½	900
Argyle.....	Evanston avenue.....	Lincoln.....	1½	375
Aberdeen.....	Southport avenue.....	East.....	1	910
Aberdeen.....	Southport avenue.....	E. of Clark.....	1	820
Aberdeen.....	Evanston avenue.....	West.....	1½	420
Addison.....	Racine avenue.....	East.....	1	520
Aldine.....	Evanston avenue.....	East.....	1½	572
Aldine.....	572 ft. E. of Evanston ave. .	East.....	1	270
Belle Plaine avenue....	Ward.....	Lincoln avenue.....	1	580
Belle Plaine avenue....	Robey.....	Lincoln avenue.....	1½	660
Belle Plaine avenue....	Lincoln avenue.....	Hoyne avenue.....	1½	340
Belle Plaine avenue....	Hoyne avenue.....	Leavitt.....	1	640
Berteau.....	Ward.....	Lincoln.....	1	580
Berteau.....	Robey.....	Lincoln.....	1½	660
Bitter Sweet place....	Halsted.....	East.....	1½	390
Bitter Sweet place....	390 ft. E. of Halsted.....	East.....	1	406
Belmont avenue.....	Western avenue.....	West.....	1½	574
Belmont avenue.....	574 ft. W. of Western avenue	West.....	1	400
Berwyn avenue.....	Southport avenue.....	West.....	1	805
Balmoral avenue.....	Southport avenue.....	North Clark.....	1½	960
Bosworth avenue.....	Addison avenue.....	Nellie avenue.....	1½	635
Bryn Maur avenue.....	Southport avenue.....	North Clark.....	2	1,055
Bryn Maur avenue.....	Evanston avenue.....	Southport avenue.....	3½	1,325
Cuyler.....	Robey.....	Lincoln.....	1½	660
Cuyler.....	Wood.....	Lincoln.....	1	580
Cuyler.....	Hoyne avenue.....	Leavitt.....	1	644
Cuyler.....	Lincoln avenue.....	Hoyne avenue.....	1½	945
Cherry.....	Blackhawk.....	Weed.....	1½	630
Clark.....	N. Fifty-ninth.....	Balmoral avenue.....	1	1,335
Dunning.....	Ward.....	Surrey court.....	1	365
Dunning.....	Southport avenue.....	Ward.....	1½	332
Eddy.....	Herndon.....	West.....	1	484
Eddy.....	Racine.....	Seminary avenue.....	1	698
Eddy.....	Racine.....	Herndon.....	1½	660
Evanston avenue.....	N. Fifty-ninth.....	Centre.....	2½	595
Evanston avenue.....	Argyle.....	Centre.....	2	720
Forrest avenue.....	Grand avenue.....	North.....	1½	628
Forrest avenue.....	Grand avenue.....	Kemper avenue.....	1½	566
Forrest avenue.....	Kemper avenue.....	Peterson avenue.....	1	752
Fletcher.....	Southport avenue.....	Perry.....	1	620
Farragut avenue.....	Southport avenue.....	West.....	1	824
Frank.....	Surf.....	Diversey avenue.....	1	528

NORTH DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
N. Fifty-ninth	Southport avenue	North Clark	1½	1,020
N. Fifty-ninth	Evanston avenue	Southport avenue	3½	1,305
George	Southport avenue	Lincoln avenue	1	574
Grand avenue	Clark	Ridge avenue	3½	1,455
Grand avenue	Southport avenue	Clark	4	1,325
Grand avenue	Evanston avenue	Southport avenue	4½	1,035
Huron	St. Claire	East	1½	675
Illinois	Seneca	East	2	900
Jansen	Addison avenue	Nellie avenue	1½	635
Marquette terrace	Halsted	East	1	400
Meadow Lane avenue	Kemper avenue	Ridge avenue	1	505
Meadow Lane avenue	Grand avenue	North	1½	626
Meadow Lane avenue	Grand avenue	Kemper avenue	1½	565
Magnolia avenue	Berwyn avenue	Clarmont avenue	1	1,332
Magnolia avenue	N. Fifty-ninth	Berwyn avenue	1½	666
Magnolia avenue	Bryn Maur avenue	Clarmont avenue	1½	666
Newport avenue	490 ft. W. of Halsted	West	1	662
Newport avenue	Seminary avenue	East	1	487
Newport avenue	Halsted	West	1½	490
Newport avenue	Racine avenue	Seminary avenue	1½	660
North avenue	Dearborn avenue	East	1	234
North avenue	State	East	1½	547
Nelson	Racine avenue	Southport avenue	1	1,175
Noble avenue	Racine avenue	Perry avenue	1	1,750
Nellie avenue	Wilton avenue	West	1½	290
Olive court	Argyle	Rome avenue	1	295
Oakdale avenue	Racine avenue	Herndon	1	586
Olga	Grace	Nellie avenue	1	720
Osgood	290 ft. S. of Center	Poe	1	330
Perry	Fletcher	North	1	144
Perry	Fletcher	South	1	144
Perry	Addison avenue	Nellie avenue	1½	605
Ridge avenue	Grand avenue	North	1½	580
Roscoe	Southport avenue	Racine avenue	1	1,320
Sunny Side avenue	Alley W. of Pemberton	Alley W. of Beacon	1	1,120
Seminary avenue	Newport avenue	North	1	155
Seminary avenue	Centre	Maud avenue	1	660
Seminary avenue	Eddy	Cornelia	1	337
Summerdale avenue	Southport avenue	West	1	795
Southport avenue	Addison avenue	Nellie avenue	1½	635
Southport avenue	Centre	Argyle	2	660
Southport avenue	N. Fifty-ninth	Berwyn avenue	2½	670
Southport avenue	N. Fifty-ninth	Centre	2½	675
Southport avenue	Berwyn avenue	Balmoral avenue	2	680
Southport avenue	Addison avenue	Roscoe	1	1,330
Webber avenue	Forrest avenue	North Clark	1	424
Wilson	Alley W. of Pemberton	Alley W. of Dower	1	1,550
Wilton	Addison avenue	Nellie avenue	1	670
Warner avenue	Wood	Lincoln avenue	1	508
Warner avenue	Robey	Lincoln avenue	1½	660
Warner avenue	Robey	Leavitt	1	1,300
Wauban	Surf	North	1	335
Ward	Marianna	Alley W. of Wrightwood avenue	1	490
Ward	Diversey	Marianna	1½	660
Ward	Dunning	North	1	490
TOTAL				76,672

WING SEWERS BUILT IN THE YEAR 1891 IN THE WEST DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Ballou.....	Manhole in North avenue..	North	1½	60
Bismark.....	Manhole in Washtenaw ave.	East and west	1	84
Bismark.....	Manhole in Rockwell.....	West	1	38
N. S. Bloomingdale road	Manhole in Humboldt.....	East and west	1	84
N. S. Bloomingdale road	Manhole in Washtenaw ave.	East and west	1	86
N. S. Bloomingdale road	Manhole in Commercial ave.	East and west	1	78
N. S. Bloomingdale road	Manhole in Rockwell.....	East and west	1	76
N. S. Bloomingdale road	Manhole in Edgar.....	East and west	1	72
N. S. Bloomingdale road	Manhole in Seymour.....	East and west	1	86
S. S. Bloomingdale road	Manhole in Washtenaw ave.	East and west	1	84
S. S. Bloomingdale road	Manhole in Commercial ave.	East and west	1	78
S. S. Bloomingdale road	Manhole in Rockwell.....	East and west	1	76
S. S. Bloomingdale road	Manhole in Edgar.....	East and west	1	72
S. S. Bloomingdale road	Manhole in Seymour.....	East and west	1	84
Burchell.....	Manhole in Fullerton ave..	North	1½	56
Campbell avenue.....	Manhole in Ogden avenue..	North	1	46
Central Park avenue...	Manhole in North avenue..	South	2	58
Central Park avenue...	Manhole in North avenue..	North	1½	60
Cromwell.....	Manhole in Fullerton ave..	South	2	58
Clifton avenue.....	Manhole in Fullerton ave..	North	1½	58
California avenue.....	Manhole in Fullerton ave..	South	1½	58
California avenue.....	Manhole in Fullerton ave..	North	1½	53
Catalpa place.....	Manhole in Fullerton ave..	North and south	1½	118
Carroll avenue.....	Manhole in Francisco.....	East and west	1	66
Carroll avenue.....	Manhole in Sacramento ave.	East and west	1	86
Cross.....	Manhole in Colorado ave..	South	1	40
Cullerton court.....	Manhole in Washtenaw ave.	West	1	38
Chicago avenue.....	Manhole in Kedzie ave.....	East and west	1½	86
E. S. Congress Park.....	Manhole in Congress.....	North and south	1	72
W. S. Congress Park.....	Manhole in Congress.....	North and south	1	72
N. S. Douglas Park blvd	Manhole in California ave..	West	1½	44
N. S. Douglas Park blvd	Manhole in Kedzie avenue..	East and west	1½	80
S. S. Douglas Park blvd	Manhole in California ave..	West	1½	44
S. S. Douglas Park blvd	Manhole in Kedzie ave.....	West	1½	40
Elston avenue.....	Manhole in Diversey ave..	West	2½	40
Fourteenth.....	Manhole in Washtenaw ave.	East	1	38
Fairfield avenue.....	Manhole in Sixteenth.....	South	1½	40
Fairfield avenue.....	Manhole in Chicago ave.....	North	1	56
Fifteenth.....	Manhole in Kedzie avenue..	West	2	44
Francisco.....	Manhole in Congress.....	North and south	1	72
Fulton.....	Manhole in Francisco.....	East and west	1	64
Fulton.....	Manhole in Columbia place.	East	1	44
Fairview avenue.....	Manhole in Fullerton ave..	North	1½	58
Forrest avenue.....	Manhole in Fullerton ave..	North	1½	66
Grand avenue.....	Manhole in Kedzie avenue..	Northwest	1½	44
Grand avenue.....	Manhole in Kedzie avenue..	Southeast	2	62
Genessee avenue.....	Manhole in Twelfth.....	South	1½	60
Homan avenue.....	Manhole in Jackson.....	North	1	48
Homan avenue.....	Manhole in Adams.....	North and south	1	92
Homan avenue.....	Manhole in Twelfth.....	North	1	48
Homan avenue.....	Manhole in North avenue..	North	1½	56
Homan avenue.....	Manhole in Monroe.....	North and south	1	90
Hancock avenue.....	Manhole in North avenue..	North.....	1½	58
Huron.....	Manhole in St. Louis ave..	East	1	42
Huron.....	Manhole in St. Louis ave..	West	1	44

WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Huron.....	Manhole in Kedzie avenue.	East and west.....	1½	86
Humboldt.....	Manhole in Armitage ave.	North.....	1	36
Hamburg.....	Manhole in Leavitt.....	East.....	1	38
Hamburg.....	Manhole in Hoyne ave....	East and west.....	1	84
Hoffman avenue.....	Manhole in Fullerton ave.	North.....	1½	52
Hoffman avenue.....	Manhole in Fullerton ave.	South.....	2	62
Hoyne avenue.....	Manhole in Eighteenth....	South.....	1	40
Hoyne avenue.....	Manhole in Van Horn.....	South.....	1	44
Hastings.....	Manhole in Lincoln.....	West.....	1½	38
Kedzie avenue.....	Manhole in North avenue..	South.....	1	56
Laughton.....	Manhole in California ave.	East.....	1	40
Lincoln.....	Manhole in Ambrose.....	North and south.....	1	84
LeMoyne avenue.....	Manhole in Washtenaw ave.	East and west.....	1	84
LeMoyne avenue.....	Manhole in Maplewood ave.	East and west.....	1	78
LeMoyne avenue.....	Manhole in Rockwell.....	East and west.....	1	70
LeMoyne avenue.....	Manhole in Fairfield ave..	East and west.....	1	80
Leavitt.....	Manhole in Wabansia ave..	South.....	1	42
Linden.....	Manhole in Fullerton ave..	East.....	1½	50
Linwood.....	Manhole in Richmond.....	East and west.....	1	80
Laurel avenue.....	Manhole in Fullerton ave..	North.....	1½	52
Moore.....	Manhole in California ave.	East.....	1	40
Moore.....	Manhole in Robey.....	East.....	1½	38
Mead.....	Manhole in North avenue..	North.....	1½	58
Myrtle.....	Manhole in Fullerton ave..	South.....	2	56
Myrtle.....	Manhole in Fullerton ave..	North.....	1½	50
Maplewood avenue.....	Manhole in Fullerton ave..	North.....	1½	66
Maplewood avenue.....	Manhole in Fifteenth.....	North.....	1	28
Millard avenue.....	Manhole in Twelfth.....	South.....	1½	58
Nineteenth.....	Manhole in Kedzie avenue..	East.....	2	44
S. S. Ogden avenue.....	Manhole in Kedzie avenue..	East.....	1½	40
N. S. Ogden avenue.....	Manhole in Kedzie avenue..	East and west.....	1½	88
Ohio.....	Manhole in Kedzie avenue..	East.....	3	53
Parmelee avenue.....	Manhole in California ave.	East.....	1	40
Powell avenue.....	Manhole in Fullerton ave..	South.....	2	64
Perry avenue.....	Manhole in Fullerton ave..	North.....	2	64
Rosebud.....	Manhole in Wabansia ave..	Northwest.....	1	52
Richmond avenue.....	Manhole in Milwaukee ave.	North.....	1	44
Rockwell.....	Manhole in Superior.....	North.....	1	64
Rockwell.....	Manhole in Chicago ave....	North.....	1	54
St. Louis avenue.....	Manhole in Twelfth.....	North.....	1	48
St. Louis avenue.....	Manhole in Adams.....	North and south.....	1	92
St. Louis avenue.....	Manhole in Colorado ave..	North.....	1	40
St. Louis avenue.....	Manhole in North ave.....	South.....	2	56
St. Louis avenue.....	Manhole in Jackson.....	North and south.....	1	96
St. Louis avenue.....	Manhole in Monroe.....	North and south.....	1	92
Spaulding avenue.....	Manhole in Twelfth.....	North.....	1	48
Spaulding avenue.....	Manhole in Adams.....	North and south.....	1	92
Spaulding avenue.....	Manhole in Jackson.....	South.....	1½	48
Spaulding avenue.....	Manhole in Monroe.....	North and south.....	1	87
Sheridan avenue.....	Manhole in Fillmore.....	South.....	1	44
Sheridan avenue.....	Manhole in North ave.....	South.....	2	56
Sixteenth.....	Manhole in Wood.....	West.....	1	42
Thirteenth.....	Manhole in Kedzie avenue..	West.....	2	46
Thirteenth.....	Manhole in Kedzie avenue..	East.....	1½	42
Thirtieth.....	Manhole in Lawndale ave..	East.....	1½	42

SEWERAGE DEPARTMENT.

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WEST DIVISION — CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Twenty-eighth	Manhole in Lawndale ave.	East	1	42
Twenty-eighth	Manhole in Lawndale ave.	West	1	40
Twenty-seventh	Manhole in Lawndale ave.	East	1	40
Twenty-seventh	Manhole in Millard avenue.	West	1	38
Twenty-fourth	Manhole in Bonney ave.	West	1	40
Twenty-fourth	Manhole in Hamlin ave.	West	1 1/4	38
Twenty-fourth	Manhole in Hamlin ave.	East	1	38
Twenty-fourth	Manhole in Central Park avenue.	West	1	38
Twenty-fifth	Manhole in Bonney ave.	West	1	40
Twenty-fifth	Manhole in California ave.	West	2	42
Twenty-fifth	Manhole in Hamlin ave.	West	1 1/4	40
Twenty-fifth	Manhole in Hamlin ave.	East	1	38
Twenty-fifth	Manhole in Central Park avenue.	West	1	38
Twenty-fifth place	Manhole in California ave.	West	2	44
Twenty-first	Manhole in Spaulding ave.	West	1	40
Twenty-first	Manhole in Kedzie avenue.	East	1 1/4	40
Twenty-second	Manhole in Hamlin avenue.	West	2	42
Thomas avenue	Manhole in Fullerton ave.	North	1 1/4	60
Thomas avenue	Manhole in Milwaukee ave.	North	1 1/4	54
Thomas avenue	Manhole in Fullerton ave.	South	1 1/4	56
Troy	Manhole in Jackson	South	1	48
Taylor	Manhole in Fairfield avenue	East and west	1	86
Trumbull avenue	Manhole in Colorado ave.	South	1	40
Utica	Manhole in Fillmore	South	1	38
Van Buren	Manhole in Central Park avenue	East	2	46
Van Horn	Manhole in Wood	West	1	42
Washtenaw avenue	Manhole in Fifteenth	North and south	1	88
Washtenaw avenue	Manhole in Sixteenth	North and south	1 1/4	84
Washtenaw avenue	Manhole in Chicago avenue	North	1	56
Washtenaw avenue	Manhole in Congress	North	1	36
Washburn avenue	Manhole in Robey	East	1	40
Washburn avenue	Manhole in Washtenaw ave	East and west	1	84
Wabansia avenue	Manhole in Washtenaw ave	East and west	1	84
Wabansia avenue	Manhole in Seymour	East and west	1	84
Wabansia avenue	Manhole in Rockwell	East	1	44
Wabansia avenue	Manhole in Hoyne avenue.	East and west	1	76
Werder	Manhole in Washtenaw ave	East and west	1	80
Werder	Manhole in Rockwell	West	1	38
TOTAL .....	.....	.....	.....	8,567

WING SEWERS BUILT IN THE YEAR 1891 IN THE SOUTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Alley E. of Calumet ave	Manhole in Forty-seventh.	North and south.	1	70
Alley S. of Fifty-fifth.	Manhole in Ashland ave.	East.	1 1/4	46
Alley E. of Grand blvd.	Manhole in Forty-sixth.	North.	1	38
Alley E. of Grand blvd.	Manhole in Forty-seventh.	North and south.	1	70
Atlantic.	Manhole in Forty-fifth.	North and south.	1	78
Atlantic.	Manhole in Forty-third.	South.	1 1/4	42
Butler.	Manhole in Thirty-ninth.	North.	1	28
Concord.	Manhole in Union.	West.	1	42
Emerald avenue.	Manhole in Thirty-ninth.	North.	2	28
Emerald avenue.	Manhole in Thirty ninth.	South.	1	28
Forty-first.	Manhole in Wallace.	West.	1 1/4	36
Forty-second.	Manhole in Ashland avenue	West.	1 1/4	46
Forty-third.	Manhole in Ashland avenue	East and west.	2 1/2	96
Forty-fourth.	Manhole in Ashland avenue	West.	1 1/4	46
Forty-fifth.	Manhole in Ashland avenue	East and west.	2	100
Forty-sixth.	Manhole in Ashland avenue	West.	1 1/4	46
Forty-ninth.	Manhole in Ashland avenue	East and west.	1 1/4	94
Forty-ninth.	Manhole in Forrestville ave	East and west.	1	76
Forty-ninth.	Manhole in St. Lawrence ave	East.	1	38
Fiftieth.	Manhole in Ashland ave.	East and west.	2	98
Fiftieth.	Manhole in Union.	West.	1	42
Fiftieth.	Manhole in Forrestville ave	East and west.	1	76
Fiftieth court.	Manhole in Forrestville ave	East and west.	1	76
Fiftieth court.	Manhole in St. Lawrence ave	East.	1	38
Fifty-first.	Manhole in Ashland ave.	West.	2 1/2	48
Fifty second.	Manhole in Ashland ave.	East and west.	1 1/4	96
Fifty-third.	Manhole in Ashland ave.	East and west.	2	96
Fifty-fourth.	Manhole in Ashland ave.	East and west.	2	96
Fifty-sixth.	Manhole in Ashland ave.	East.	2	48
Fifty-sixth.	Manhole in Wabash avenue	East and west.	1	114
Fifty-sixth.	Manhole in Michigan ave.	East.	1	56
Fifty-seventh.	Manhole in Halsted.	East.	2	44
Fifty-seventh.	Manhole in Ashland avenue	East.	2	48
Fifty-seventh.	Manhole in Wabash avenue	East and west.	1	112
Fifty-seventh.	Manhole in Michigan avenue	East.	1	56
Fifty-eighth.	Manhole in Ashland avenue	East.	2	48
Fifty-eighth.	Manhole in Wabash ave.	East and west.	1	112
Fifty-eighth.	Manhole in Michigan ave.	East.	1	56
Fifty-ninth.	Manhole in Wabash ave.	East and west.	1	112
Fifty-ninth.	Manhole in Michigan ave.	East.	1	56
Green.	Manhole in Thirty-ninth.	South.	1	36
Gross avenue.	Manhole in Ashland avenue	Northwest.	1 1/4	60
Huron.	Manhole in Forty-third.	South.	1 1/4	42
Logan.	Manhole in Union.	East and west.	1	76
Niagara.	Manhole in Union.	West.	1	42
Portland avenue.	Manhole in Thirty-ninth.	North.	1 1/4	36
Prairie avenue.	Manhole in Forty-seventh.	North.	1 1/4	45
Sixtieth.	Manhole in Michigan ave.	East and west.	1	112
Sixtieth.	Manhole in Wabash ave.	East and west.	1	114
Sixty-first.	Manhole in Wabash avenue	East and west.	1	112
Sixty-first.	Manhole in Michigan ave.	East.	1	56
Sixty-second.	Manhole in Wabash avenue	East and west.	1	112
Sixty-fourth.	Manhole in Halsted.	West.	1 1/4	50
Sixty-fifth.	Manhole in Halsted.	West.	2 1/2	50
Sixty-sixth.	Manhole in Halsted.	West.	1 1/4	44

SEWERAGE DEPARTMENT.

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SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Sixty-sixth.....	Manhole in Halsted.....	East.....	1½	44
Sixty-sixth court.....	Manhole in Halsted.....	East.....	1½	44
Sixty-eighth.....	Manhole in Halsted.....	East and west.....	1½	88
Stewart avenue.....	Manhole in Thirty-ninth.....	North.....	1½	28
School.....	Manhole in Thirty-ninth.....	South.....	1½	88
Sherman.....	Manhole in Forty-third.....	North.....	1	40
Stearns.....	Manhole in Quinn.....	East.....	1	88
Thirtieth.....	Manhole in Butler.....	East.....	1	88
Thirtieth.....	Manhole in Parnell avenue.....	East.....	1	88
Thirty-second.....	Manhole in Dashiell.....	East and west.....	1	66
Thirty-second.....	Manhole in Shields.....	East.....	1	88
Thirty-third.....	Manhole in Dashiell.....	East and west.....	1	68
Thirty-third court.....	Manhole in Paulina.....	East and west.....	1	72
Thirty-fourth.....	Manhole in Dashiell.....	West.....	1	84
Thirty-fourth.....	Manhole in Paulina.....	East and west.....	1	72
Thirty-eighth.....	Manhole in Dashiell.....	East and west.....	1	68
Thirty-eighth.....	Manhole in Paulina.....	East.....	1	88
Tracy avenue.....	Manhole in Forty-fifth.....	North.....	1	40
Tracy avenue.....	Manhole in Forty-third.....	South.....	1½	42
Union avenue.....	Manhole in Chestnut.....	North and south.....	1	70
Vincennes avenue.....	Manhole in Forty-seventh.....	South.....	1½	46
Wabash avenue.....	Manhole in Sixty-third.....	North.....	1½	80
Wabash avenue.....	Manhole in Forty-seventh.....	North and south.....	1½	86
TOTAL.....	.....	.....	.....	4,729

WING SEWERS BUILT IN THE YEAR 1891 IN THE NORTH DIVISION.

STREET.	FROM	TO	Diam. in Feet.	Length in Feet.
Astor.....	Manhole in North ave.....	South	1	34
Bosworth	Manhole in Addison avenue	North	1½	42
Herndon.....	Manhole in Addison avenue	North	1½	42
Herndon.....	Manhole in Addison avenue	South	2	44
Janssen avenue.....	Manhole in Addison avenue	North	1½	42
Kohlsaat.....	Manhole in Grace.....	South	1½	42
Lewis	Manhole in Addison avenue	North	1½	42
Mary	Manhole in Wolfram.....	North and south.....	1	86
Marquette	Manhole in Halsted.....	East.....	1	40
Perry.....	Manhole in Addison avenue	North	1½	42
Racine avenue	Manhole in Addison avenue	North	2	44
Southport avenue.....	Manhole in Addison avenue	North	1½	42
Stella	Manhole in Grace.....	North	1	42
Stella	Manhole in Grace.....	South	1½	42
Ward.....	Manhole in Addison avenue	North	1½	42
Wellington	Manhole in Southport ave..	West	1	48
Woodside avenue.....	Manhole in Lincoln avenue	North	1½	88
TOTAL				804

TOTAL LENGTH OF SEWERS CONSTRUCTED DURING
THE YEAR 1891.

DIVISIONS.	LENGTH IN FEET.	MILES.
West Division.....	288,765	54,690
South Division	190,677	34,219
North Division	77,476	14,674
GRAND TOTAL.....	546,918	103,583

MAN-HOLES AND CATCH-BASINS RAISED TO GRADE ON STREETS ORDERED IMPROVED WITH COST OF SAME
DURING THE YEAR 1891, AS FOLLOWS:

No.	DESCRIPTION OF WORK DONE.	Cement.	Brick.	Covers.			Straight Pipe.			Crv'd Pipe.	Slants.		Boxes.	Cost.		TOTAL COST.	
				Iron.	Wood	Mil- w'kec. Iron.	9 in.	12 in.	15 in.		9 in.	9 in.		Material, Bills, etc.	Labor and Teaming.		
3,872	Man-holes raised to grade....	3,997	1,096,750	904	949	9	87	4,188	8	10	292	10	17	2,248	\$30,301 41	\$30,832 30	\$66,153 71
3,630	Catch-basins raised to grade..																

AMOUNT EXPENDED FOR REPAIRS OF SEWERS, MAN-HOLES AND CATCH-BASINS, ALSO MAN-HOLE AND CATCH-
BASIN COVERS DURING THE YEAR 1891, AS FOLLOWS:

No.	DESCRIPTION OF WORK DONE.	Cement.	Brick.	Covers.			Straight Pipe.					Curved Pipe.			Junctions.	Traps.	COST.					
				Iron.	Wood	Small Iron.	6 in.	9 in.	12 in.	15 in.	18 in.	6 in.	9 in.	12 in.			6x12	6x15	9 in.	Material, Bills, etc.	Labor and Teaming.	Total Cost
147	Man-holes repaired.....	182	44,000	15	41	9																
163	Catch-basins repaired.....																					
141	Feet of 6-in. drains repaired.....	5	3,000				72															
894	Feet of 9-in. drains repaired.....	15	3,000					313	118													
556	Feet of 12-in. drains repaired.....	37	10,500																			
106	Feet of 15-in. sewer repaired.....	22	4,500																			
110	Feet of 18-in. sewer repaired.....	8	2,000																			
122	Feet of 2-ft. sewer repaired.....	20	6,400																			
210	Feet of 3-ft. sewer repaired.....	34	10,000																			
102	Feet of 5-ft. sewer repaired.....	54	27,000																			
						</																

RECEIPTS IN THE HOUSE DRAIN DEPARTMENT DURING THE YEAR 1891.

DIVISIONS.	PERMITS ISSUED.							Receipts.
	18-inch.	15-inch.	12-inch.	9-inch.	6-inch.	Total.	Junc-tions.	
West	1	.....	1	47	2,711	2,760	20	\$14,559 28
South .....	.....	1	2	53	649	705	10	8,775 38
North .....	.....	.....	.....	27	117	144	6	850 00
Lake View.....	.....	.....	.....	5	1,378	1,278	6	6,819 50
Hyde Park. ....	.....	.....	.....	11	1,259	1,270	18	6,285 00
Town of Lake.....	.....	.....	.....	22	2,881	2,353	18	11,807 50
TOTALS	1	1	3	165	8,340	8,510	68	\$43,596 66
From licenses.....								1,429 75
Permits from Special Assessments, etc.								51,082 69
Total Receipts.....								\$96,109 10

NUMBER OF DRAINS PUT IN PLACE DURING THE YEAR 1891, UNDER SPECIAL ASSESSMENT.

DIVISIONS.	Total Number of Drains.	Total Length in Feet.	Total Cost.	Average Cost per Drain.	Average Length of Drain in Feet	Average Cost per Foot.
West.....	6,517	180,841	\$54,067 06	\$8 30	27.75	\$0.29.90
South.....	4,828	185,502	48,878 78	10 14	31.31	32.38
North.....	467	12,752	5,180 50	10 99	27.80	40.82
Rock Excavation.....	.....	.....	7,763 78	.....	.....	.....
TOTAL.....	11,812	329,095	\$110,840 12	\$9 08	29.10	\$0.33.68

Making a total of 62.33 miles of 6-inch drains laid by contract and paid for by Special Assessment.

During the past year the large main in West Fortieth street has been completed from the West fork of the South branch of the river to Kinzie street, and is under contract and will be completed early next season to Division. The main in North avenue has been extended west to Grand avenue.

Armitage avenue main has been extended from Kedzie avenue west to Columbia avenue.

Diversey avenue main has been built from the river west to Kedzie avenue.

Belmont avenue main has been finished west to Milwaukee avenue.

Thirty-fifth street main has been extended from Archer avenue west to California avenue.

Grand avenue sewer has been built from Western avenue northwest to Division street, except a short distance through the rock cutting near Rockwell street, which will be completed early next spring. The main sewer in South Halsted street has been finished to Eighty-fifth street. This street is now sewered from Lake Michigan on the north to Eighty-fifth street on the south, a distance of $15\frac{1}{4}$ miles.

Grand avenue (Lake View) sewer has been extended west to Ridge avenue.

I desire to express my thanks to you and all the other officers of the City Government for the uniform courtesy extended to me, officially and otherwise, during the past year.

Very respectfully yours,

O. H. CHENEY,

Superintendent Bureau of Sewers.

REPORT
OF THE
Bureau of Streets
CITY OF CHICAGO

BUREAU OF STREETS.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I have the honor to submit herewith the Sixteenth Annual Report of the Bureau of Streets, for the year ending December 31, 1891.

It embraces in detail a review of the work accomplished during the year under the supervision of this Bureau; also street railway extensions made by the several street railway companies; the work done by the various railroad companies under the ordinance of March 26, 1890, together with a report of the condition and repairs of street lamps within the city limits.

The amount paid contractors for street improvements by special assessment.....	\$ 3,558,297 10
For sidewalks built by the Bureau under special assessment.....	68,217 44
For sweeping and cleaning improved streets by contract.....	\$ 147,593 07
By Department.....	70,454 08
	<hr/> 218,047 15
For repaving and repairing improved streets.....	317,314 21
For grading, ditching, building and repairing aprons, culverts, crossing, etc., on unimproved streets.....	267,809 66
For sidewalk intersections.....	\$ 45,433 94
For sidewalks, general repairs.....	108,666 67
	<hr/> 154,100 61
For city parks.....	8,462 83
For city hall operation and maintenance.....	83,541 22
For repairs on gas lamps, etc.....	\$ 27,939 04
For repairs on gasoline lamps.....	6,659 17
For erecting posts and signs.....	4,952 66
	<hr/> 39,550 87
GRAND TOTAL.....	\$ 4,715,341 09

The following tables show the progress in street and alley improvements, the character of pavement laid on each street, the total length in lineal feet and miles, as well as the surface measurement in square yards:

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley	Center to Webster ave.	Fremont to Bissell.....	Nov. 21, 1891
Alley	Erie to Huron.....	Wells to LaSalle.....	Oct. 29, 1891
Alley	Ohio to Ontario.....	Clark to LaSalle.....	Nov. 19, 1891
Alley	Center to Garfield ave.	Howe to Larrabee.....	Nov. 21, 1891
Alley	Clay to Center.....	Halsted to Dayton.....	Oct. 20, 1891
Alley	Lane place to Center...	Clark to Garfield.....	Sept. 25, 1891
Alley	Mohawk to Larrabee...	North avenue to Eugenie	Oct. 23, 1891
Alley	Willow to Clay.....	Dayton to Halsted.....	Oct. 20, 1891
Alley	Wisconsin to Center...	Hudson to Cleveland...	Aug. 12, 1891
Alley	Menomonee to Wisconsin	Hudson to Cleveland...	Aug. 10, 1891
Alley	Willow to Clay.....	Fremont to Dayton.....	July 20, 1891
Alley	Market to Franklin...	Ohio to Indiana.....	Aug. 14, 1891
Alley	Division to Division...	State, Elm, L. S. Drive.	July 25, 1891
Alley	Rush to Pine.....	Walton to Oak.....	July 17, 1891
Alley	Center to Garfield ave.	Larrabee to Mohawk...	July 22, 1891
Alley	Hobbie to Elm.....	Sedgwick to Townsend...	July 30, 1891
Alley	Wisconsin to Center...	Sedgwick to Hudson...	July 17, 1891
Alley	Michigan to Illinois...	Wells to LaSalle.....	July 27, 1891
Alley	Cass to Rush.....	Illinois to Indiana...	July 14, 1891
Alley	Goethe to Schiller...	Clark to LaSalle.....	May 30, 1891
Alley	Wisconsin to Center...	Larrabee to Mohawk...	May 8, 1891
Alley	Burton place to Schiller	Astor to State.....	May 5, 1891
Alley	Elm to Division.....	State to Dearborn.....	May 7, 1891
Alley	Hill to Elm.....	Franklin to Wells...	Sept. 15, 1891
Addison avenue.....	Clark.....	Ashland avenue.....	Aug. 1, 1891
Addison avenue.....	Clark.....	Lake Michigan.....	July 1, 1891
Aldine.....	Evanston avenue.....	Lake Michigan.....	Sept. 17, 1891
*Arlington.....	Sunnyside avenue.....	Lawrence avenue.....	May 15, 1891
Ashland avenue.....	Belmont avenue.....	Graceland avenue.....	April 15, 1891
Ashland avenue.....	Graceland avenue.....	Sulzer.....	May 21, 1891
Bissell	Webster avenue.....	125 ft. south.....	June 22, 1891
Block	North avenue.....	Eugenie.....	May 15, 1891
*Balmoral avenue.....	Winthrop avenue.....	C. E. & L. R. R.....	.....
*Beacon	Sunnyside avenue.....	Lawrence avenue.....	Mar. 15, 1891
*Belle Plaine avenue...	Wood.....	Robey.....	Aug. 1, 1891
*Belle Plaine avenue...	Lincoln avenue.....	Leavitt.....	Aug. 1, 1891
*Berteau avenue.....	Wood.....	Robey.....	Aug. 1, 1891
*Belle Plaine avenue...	Perry.....	Clark.....	.....
*Bittersweet place.....	Halsted.....	Lake Michigan.....	July 8, 1891
*Brompton avenue.....	Halsted.....	Evanston avenue.....	Aug. 4, 1891
*Buena Park terrace....	Hazel.....	Evanston avenue.....	July 8, 1891
*Burling	Wrightwood avenue...	Dewey court.....	.....
Cooper	Clybourn avenue.....	Fullerton avenue.....	Oct. 20, 1891
*Catalpa	Perry.....	Southport avenue...	.....
*Clarence avenue.....	Grace.....	Byron.....	.....
Cornelia	Halsted.....	Lake Michigan.....	Aug. 1, 1891
*Cuyler avenue.....	Wood.....	Robey.....	Aug. 1, 1891
*Cuyler avenue.....	Lincoln avenue.....	Leavitt.....	Aug. 1, 1891

*Private Contract.

STREET DEPARTMENT.

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NORTH DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 26, 1891	O. Vider & Co.	W. C. G. Cedar blocks	1,338.74	912.78
Nov. 3, 1891	J. V. McAdam	W. C. G. Cedar blocks	316.49	203.46
Nov. 24, 1891	O. Vider & Co.	W. C. G. Cedar blocks	672.52	535.00
Dec. 7, 1891	O. Vider & Co.	W. C. G. Cedar blocks	1,010.46	598.30
Oct. 28, 1891	P. Farrell	W. C. G. Cedar blocks	1,342.80	728.00
Dec. 4, 1891	O. Vider & Co.	W. C. G. Cedar blocks	551.53	413.81
Oct. 27, 1891	O. Vider & Co.	W. C. G. Cedar blocks	1,478.09	745.00
Oct. 28, 1891	P. Farrell	W. C. G. Cedar blocks	1,420.38	751.96
Aug. 27, 1891	P. Farrell	W. C. G. Cedar blocks	1,092.50	595.91
Aug. 25, 1891	P. Farrell	W. C. G. Cedar blocks	1,110.70	595.00
Aug. 26, 1891	R. F. Conway	W. C. G. Cedar blocks	1,640.26	877.00
Aug. 23, 1891	J. B. Smith & Co.	W. C. G. Cedar blocks	627.32	326.34
Aug. 5, 1891	R. F. Conway	W. C. G. Cedar blocks	1,513.17	876.00
Aug. 5, 1891	P. Farrell	W. C. G. Cedar blocks	801.99	771.04
Aug. 4, 1891	R. F. Conway	W. C. G. Cedar blocks	1,021.94	597.34
Aug. 13, 1891	P. Farrell	W. C. G. Cedar blocks	657.90	379.56
Aug. 3, 1891	R. F. Conway	W. C. G. Cedar blocks	1,183.49	595.72
July 29, 1891	P. Farrell	W. C. G. Cedar blocks	569.18	417.70
July 16, 1891	A. J. McBean	W. C. G. Cedar blocks	585.01	300.00
June 8, 1891	Garden City Paving & Post Co.	W. C. G. Cedar blocks	1,463.00	665.00
May 12, 1891	O. Vider & Co.	W. C. G. Cedar blocks	774.18	595.52
May 11, 1891	O. Vider & Co.	W. C. G. Cedar blocks	980.57	554.00
May 9, 1891	O. Vider & Co.	W. C. G. Cedar blocks	450.64	281.65
Sept. 18, 1891	Talbot Paving Co.	W. C. G. Cedar blocks	357.32	218.79
Sept. 10, 1891	J. B. Smith & Co.	C. C. Cedar blocks	17,159.70	3,516.50
Aug. 17, 1891	C. B. Parsons	C. C. F. Macadam	13,616.80	3,404.20
Unfinished.	O. Vider & Co.	C. C. F. Macadam	2,810.00	843.00
June 15, 1891	Graceland Cemetery Co.	G. Macadam	6,791.11	1,910.00
June 30, 1891	Garden City Paving & Post Co.	C. C. Cedar blocks	15,496.70	6,339.50
June 20, 1891	J. J. Duffy & Co.	C. C. Cedar blocks	11,451.30	2,715.00
July 18, 1891	J. B. Smith & Co.	C. G. Cedar blocks	526.21	140.80
June 23, 1891	J. B. Smith & Co.	C. G. Cedar blocks	1,343.05	604.37
.....	Dolese & Shepard	C. C. Macadam	500.00	150.00
June 15, 1891	Graceland Cemetery Co.	G. Macadam	6,755.56	1,900.00
Aug. 26, 1891	Dolese & Shepard	C. Macadam	2,262.34	1,204.80
Aug. 26, 1891	John Sackley	G. Macadam	1,842.00	921.00
Aug. 26, 1891	Dolese & Shepard	C. Macadam	2,399.25	1,233.90
.....	Graceland Cemetery Co.	G. Macadam	3,240.00	972.00
Aug. 24, 1891	Alexander, Hill & Dunlap	C. C. Macadam	2,500.00	750.00
Sept. 22, 1891	C. M. Netterstrom	C. Macadam	2,156.67	647.00
July 20, 1891	C. M. Netterstrom	C. Macadam	1,357.78	470.00
.....	Garden City Paving & Post Co.	Com. Walk and Curb	.....	1,696.00
Oct. 28, 1891	J. B. Smith & Co.	C. F. Cedar blocks	1,774.75	532.42
.....	Graceland Cemetery Co.	G. Macadam	2,772.00	831.60
.....	McDougall & Hammond	W. C. C. Macadam	1,616.67	485.00
Sept. 15, 1891	O. Vider & Co.	C. C. F. Macadam	6,548.00	1,798.00
Aug. 26, 1891	Dolese & Shepard	C. Macadam	2,343.65	1,205.30
Aug. 26, 1891	John Sackley	G. Macadam	2,152.00	1,076.00

STREETS IMPROVED, NORTH

NAME OF STREET.	FROM	TO	COMMENCED.
Claremont avenue.....	Magnolia avenue.....	Evanston avenue.....	
*Dover.....	Sunnyside avenue.....	Lawrence avenue.....	Mar. 15, 1891
Eastwood avenue.....	Sheffield avenue.....	Halsted.....	Sept. 16, 1891
Elaine place.....	Roscoe.....	Cornelia.....	Mar. 1, 1891
*Evanston avenue.....	North Fifty-ninth.....	Bryn Mawr avenue.....	Aug. 27, 1891
Fremont.....	Bissell.....	Willow.....	Aug. 1, 1891
Grace.....	Clark.....	Lake Michigan.....	Sept. 1, 1890
*Grand avenue.....	C. E. & L. S. R. R.....	Sheffield avenue.....	
*Glenlake avenue.....	Winthrop avenue.....	Alley E. of Sheffield avenue.....	
*Huron.....	St. Clair.....	600 ft. east.....	Dec. 1, 1891
Hull.....	Eugenie.....	Menomonee.....	April 1, 1891
Hein.....	Sedgwick.....	Cleveland avenue.....	April 25, 1891
High.....	Fullerton avenue.....	Webster avenue.....	Aug. 29, 1891
Halsted.....	Evanston avenue.....	Sulzer.....	July 23, 1891
Jay.....	Center.....	Garfield avenue.....	July 2, 1891
Jay.....	Garfield avenue.....	Webster avenue.....	July 3, 1891
Jay.....	Webster avenue.....	Fullerton avenue.....	July 1, 1891
Kemper place.....	Orchard.....	Larrabee.....	Nov. 4, 1891
Kenmore avenue.....	Lawrence.....	Ainslie.....	Oct. 1, 1891
*Kenmore avenue.....	Thorndale avenue.....	Grand avenue.....	
Lewis.....	Clybourn avenue.....	Belden avenue.....	Aug. 12, 1891
Locust.....	Market.....	Townsend.....	June 23, 1891
*Leland avenue.....	Clark.....	Pemberton avenue.....	Mar. 15, 1891
Lill avenue.....	Halsted.....	Lincoln avenue.....	July 18, 1891
Lincoln avenue.....	Belmont avenue.....	Addison avenue.....	May 15, 1891
*Lincoln.....	Graceland avenue.....	Berteau avenue.....	Aug. 1, 1891
*Linden place.....	Wrightwood avenue.....	Dunning court.....	May 20, 1891
*Magnolia.....	Balmoral avenue.....	Bryn Mawr avenue.....	
*Malden.....	Sunnyside.....	Lawrence avenue.....	Mar. 15, 1891
*Marquette terrace.....	Halsted.....	Lake Michigan.....	Dec. 14, 1891
Melrose.....	Evanston avenue.....	Lake Michigan.....	Sept. 23, 1891
Michigan.....	Rush (Contract 24 ft.).....	Clark.....	Oct. 23, 1891
Michigan.....	Rush (11 ft. adj. curb).....	Clark.....	Oct. 23, 1891
Michigan.....	Rush.....	St. Clair.....	May 9, 1891
Moore.....	Elm.....	Division.....	June 18, 1891
*N. Water.....	LaSalle.....	Alley West.....	Sept. 24, 1891
*Nellie avenue.....	Sheffield avenue.....	Rockeby.....	May 27, 1891
Noble avenue.....	Sheffield avenue.....	Clark.....	July 8, 1891
Ohio.....	Clark.....	St. Clair.....	Sept. 16, 1891
Ontario.....	Clark.....	St. Clair.....	Oct. 16, 1891
Ontario.....	Franklin.....	Kingsbury.....	May 20, 1891
*Oakdale avenue.....	Sheffield avenue.....	Halsted.....	Oct. 1, 1891
Otto.....	Paulina.....	Wood.....	Aug. 8, 1891
Racine avenue.....	Diversey avenue.....	Belmont avenue.....	Sept. 1, 1891
Racine avenue.....	Belmont avenue.....	Roscoe.....	Sept. 15, 1891
Robey.....	Belmont avenue.....	Roscoe.....	Oct. 1, 1891
*Rokeby.....	Addison avenue.....	Cornelia.....	July 1, 1891
Rokeby.....	Addison avenue.....	Nellie.....	July 1, 1891

*Private Contract.

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
.....	Dolese & Shepard.....	C. C. Macadam.....	1,000.00	300.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,844.44	1,925.00
Unfinished.	Sackley & Peterson.....	C. C. F. Macadam.....	4,245.33	1,273.60
May 13, 1891	C. B. Parsons.....	C. F. Macadam.....	2,485.60	621.40
Sept. 28, 1891	Dolese & Shepard.....	Macadam repaving.....	8,666.67	2,600.00
Aug. 3, 1891	R. F. Conway.....	W. C. F. Cedar blocks	1,058.40	264.60
Aug. 20, 1891	James Lyman & Co.....	C. C. F. Macadam.....	16,023.00	4,233.10
.....	Dolese & Shepard.....	C. C. Macadam.....	3,040.00	912.00
.....	Dolese & Shepard.....	C. C. Macadam.....	1,820.00	546.00
Dec. 11, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	2,266.67	600.00
May 21, 1891	J. J. Duffy & Co.....	C. G. Cedar blocks.....	1,322.68	595.20
Sept. 15, 1891	Talbot Paving Co.....	C. F. Cedar blocks.....	1,121.90	644.00
Sept. 30, 1891	J. V. McAdam.....	C. F. Cedar blocks.....	5,319.71	1,259.93
Sept. 26, 1891	J. Lyman & Co.....	C. C. Macadam.....	12,470.20	2,830.70
July 29, 1891	J. V. McAdam.....	C. G. Cedar blocks.....	2,039.31	611.79
July 29, 1891	J. V. McAdam.....	C. G. Cedar blocks.....	2,044.16	613.25
July 16, 1891	A. J. McBean.....	C. G. Cedar blocks.....	4,066.08	1,219.82
Nov. 12, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	1,714.31	674.86
Unfinished.	James Lyman & Co.....	C. C. F. Macadam.....	3,171.33	951.40
.....	Dolese & Shepard.....	C. C. Macadam.....	5,260.00	1,578.00
Aug. 25, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.....	7,897.17	1,870.38
July 25, 1891	A. J. McBean.....	C. G. Cedar blocks.....	2,684.05	630.72
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,471.11	1,820.00
July 21, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	3,107.40	932.22
June 12, 1891	A. J. McBean.....	W. C. C. Cedar blocks	14,969.79	3,214.17
Aug. 26, 1891	Dolese & Shepard.....	C. Macadam.....	2,425.74	1,226.50
May 25, 1891	O. Vider & Co.....	C. F. Cedar blocks.....	1,740.74	522.22
.....	Dolese & Shepard.....	C. C. Macadam.....	4,220.00	1,266.00
June 15, 1891	Graceland Cemetery Co.....	G. Macadam.....	6,755.56	1,900.00
Unfinished.	Kimbell-Cobb Stone Co.....	C. C. Macadam.....	1,166.67	350.00
Unfinished.	O. Vider & Co.....	C. C. F. Macadam.....	3,595.33	1,078.60
Nov. 6, 1891	R. F. Conway.....	G. Cedar blocks.....	3,821.99	1,433.25
Nov. 6, 1891	R. F. Conway.....	C. G. Cedar blocks.....	3,821.87	1,553.46
May 25, 1891	R. F. Conway.....	C. G. Cedar blocks.....	3,561.15	696.74
July 15, 1891	O. Vider & Co.....	C. G. Cedar blocks.....	887.82	285.37
Sept. 25, 1891	J. B. Smith & Co.....	G. Cedar blocks.....	619.53	258.00
May 30, 1891	Alexander, Hill & Dunlap.....	Curbing.....	.....	672.80
July 11, 1891	O. Vider & Co.....	C. C. Cedar blocks.....	4,323.00	1,296.90
Oct. 20, 1891	Western Paving & Supply Co..	C. G. Asphalt.....	9,157.83	2,423.07
Nov. 16, 1891	Western Paving & Supply Co..	C. G. Asphalt.....	9,173.76	2,435.51
June 1, 1891	J. J. Duffy & Co.....	C. W. G. Cedar blocks	6,087.21	1,804.40
May 1, 1891	Chas. B. Parsons.....	C. C. Macadam.....	4,453.33	1,336.00
Sept. 26, 1891	Jas. Lyman & Co.....	W. C. C. Macadam.....	3,340.80	1,366.70
Sept. 16, 1891	A. J. McBean & Co.....	C. C. Cedar blocks.....	14,674.20	2,751.40
Oct. 26, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	5,300.00	1,255.30
Oct. 22, 1891	J. B. Smith & Co.....	C. C. Cedar blocks.....	3,803.00	1,255.80
July 31, 1891	Dolese & Shepard.....	W. C. C. & Macadam.	2,070.00	621.00
July 31, 1891	Alexander, Hill & Dunlap.....	Curbing.....	.....	662.00

STREETS IMPROVED, NORTH

NAME OF STREET.	FROM	TO	COMMENCED.
*St. Michael's court.....	North avenue.....	Eugenie.....	Sept. 14, 1891
State.....	Division.....	North avenue.....	May 8, 1891
Shaughnessy.....	Goethe.....	Sigel.....	Aug. 15, 1891
Superior.....	Franklin.....	Kingsbury.....	April 27, 1891
Sheffield avenue.....	Graceland avenue.....	Evanston avenue.....	Aug. 8, 1891
*Sheffield avenue.....	Addison avenue.....	Nellie avenue.....	July 1, 1891
*Southport avenue.....	Graceland avenue.....	Clark.....	.....
*Thorndale avenue.....	Winthrop avenue.....	Alley E. of Sheffield avenue.....	.....
*Warner avenue.....	Robey.....	Wood.....	Aug. 1, 1891
*Warner avenue.....	Robey.....	Leavitt.....	Aug. 1, 1891
*Wilton avenue.....	Addison avenue.....	Nellie avenue.....	July 1, 1891
*Wilton avenue.....	Addison avenue.....	Cornelia.....	July 1, 1891
*Windett avenue.....	Sheffield avenue.....	Halsted.....	Sept. 21, 1891
Windsor.....	Sheffield avenue.....	Halsted.....	May 1, 1891
Wolfram.....	Halsted.....	Racine avenue.....	Oct. 1, 1891
Wrightwood avenue.....	Racine avenue.....	C. E. & L. S. R. R.....	April 1, 1891
*Winthrop avenue.....	Thorndale avenue.....	Grand avenue.....	.....
Vine.....	Vedder.....	Rees.....	April 1, 1891

*Private Contract.

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Sept. 21, 1891	O. Vider & Co.	C. G. Cedar blocks...	1,200.00	600.00
June 12, 1891	Western Paving & Supply Co.,	C. G. Asphalt.	9,807.28	2,749.70
Aug. 1891	P. Farrell.	C. G. Cedar blocks...	784.01	299.50
May 2, 1891	J. B. Smith & Co.	C. G. Cedar blocks...	7,567.34	1,483.79
Oct. 1, 1891	C. B. Parsons.	C. Macadam, repairing	10,313.30	2,320.50
July 4, 1891	Alexander, Hill & Dunlap.	Curbing.		662.00
	Graceland Cemetery Co.	C. Macadam.	4,264.44	1,010.00
	Dolese & Shepard.	C. C. Macadam.	1,820.00	546.00
Aug. 26, 1891	Dolese & Shepard.	C. Macadam.	2,320.12	1,207.00
Aug. 26, 1891	John Sackley.	G. Macadam.	2,362.80	1,181.40
July 31, 1891	Alexander, Hill & Dunlap.	C. F. Macadam.	2,005.33	601.60
July 31, 1891	Dolese & Shepard.	W. C. C. Macadam ..	2,076.67	623.00
Dec. 31, 1891	C. M. Netterstrom.	C. C. Macadam.	4,191.00	1,257.30
Aug. 24, 1891	O. Vider & Co.	C. C. F. Macadam.	4,283.00	1,284.90
Nov. 2, 1891	J. B. Smith & Co.	C. C. Cedar blocks...	9,476.70	2,665.30
May 22, 1891	A. J. McBean.	C. C. Cedar blocks...	2,782.36	659.00
	Dolese & Shepard.	C. C. Macadam.	5,260.00	1,578.00
April 28, 1891	O. Vider & Co.	W. C. & F.		434.60
TOTALS.			418,953.91	130,717.92

Lineal feet paving. 126,590.52 feet, or 23.97 miles.

Unpaved streets, lineal feet curbing. 4,127.40 feet, or 0.78 miles.

GRAND TOTALS. 130,717.92 feet, or 24.75 miles.

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
*Alley	LaSalle to Fifth avenue.	Randolph to Washington	July 25, 1891
Alley	Twenty-second to Twenty-third.	Calumet to So. Park avenue	May 17, 1891
Alley	Twentieth to Twenty-first.	Indiana avenue to Prairie avenue	June 11, 1891
Alley	Thirty-fourth to Thirty-fifth.	So. Park avenue to Vernon avenue	June 27, 1891
Alley	Twenty-fourth to Twenty-fifth.	Indiana avenue to Prairie avenue.	May 23, 1891
Alley	Twenty-ninth to Thirty-third.	State to Dearborn.	June 7, 1891
Alley	Spring to Twenty-ninth.	State to Dearborn.	May 27, 1891
Alley	Thirty-fifth to Thirty-seventh.	Indiana avenue to Prairie avenue.	July 30, 1891
Alley	Thirty-third to Thirty-fourth.	Michigan avenue to Indiana avenue	May 26, 1891
Alley, N. and S.	Thirty-third to E&W of Thirty-fifth	Calumet avenue to So. Park avenue	May 24, 1891
Alley	Twenty-fifth to Twenty-sixth.	Indiana avenue to Prairie avenue.	Aug. 1, 1891
Alley	Thirtieth to Thirty-first.	Cottage Grove to Vernon avenue.	June 29, 1891
Alley	Thirty-second to Thirty-third.	Prairie avenue to Forest avenue.	Aug. 28, 1891
Alley	Twenty-fifth to Twenty-sixth.	State to Dearborn.	Sept. 9, 1891
Alley	Thirty-first to Thirty-second.	Indiana avenue to Prairie avenue.	Oct. 29, 1891
Alley	Twenty-third to Twenty-fourth.	Wabash avenue to Michigan avenue	Sept. 8, 1891
Alley	Thirty-fourth to Thirty-fifth.	Michigan avenue to Indiana avenue	Oct. 28, 1891
Alley	Twenty-third to Twenty-fourth.	State to Dearborn.	Oct. 2, 1891
Alley	Twenty-sixth to Twenty-ninth.	Calumet avenue to So. Park avenue	Dec. 11, 1891
Alley	Vincennes ave. to St. Lawrence.	Forty-first to Bowen avenue	June 12, 1891
Alley	Thirty-first to Thirty-second.	Lake avenue to Groveland avenue.	April 28, 1891
*Anthony avenue	Seventy-ninth.	Eightieth.	July 1, 1891
*Adams avenue.	Seventy-ninth.	Eighty-first.	July 1, 1891
*Adams avenue.	Eighty-first.	Eighty-third.	July 1, 1891
Armour avenue	Thirty-ninth.	Root.	July 16, 1891
Ashland avenue.	Thirty-ninth.	Fifty-fifth.	Unfinished.
Ashland avenue.	Fifty-fifth.	Fifty-ninth.	Unfinished.
*Benton place	State	Randolph.	Sept. 1, 1891
Bonfield	Archer avenue.	Hickory.	Oct. 29, 1891
Broad	Archer avenue.	Thirty-first.	Aug. 4, 1891
Buffalo avenue.	Eighty-seventh.	Ninety-second.	Mar. 18, 1891
*Butler	Hundred and eleventh.	Hundred and fifteenth.	
*Calumet avenue	Forty-second.	Forty-third.	Nov. 15, 1890
Commercial avenue	Ninetieth.	Ninety-second.	Sept. 20, 1890
Commercial avenue	Eighty-seventh.	Ninetieth.	Sept. 20, 1890
Cottage Grove avenue.	Oakenwald boulevard	Forty-fourth.	May 14, 1891
*Calhoun place	LaSalle.	Clark.	May 20, 1891
*Calhoun place.	LaSalle.	Fifth avenue.	Oct. 6, 1891
Chestnut.	Halsted.	Wallace.	July 7, 1891
*Carpenter.	Fifty-fourth.	Fifty-fifth.	
Dashiel	Thirty-first.	Thirty-ninth.	May 25, 1891
Dearborn	Sixteenth.	St. Charles Air Line.	June 6, 1891
Drexel avenue.	Fifty-fifth.	Fifty-ninth.	Aug. 20, 1891
Dearborn	Thirty-ninth.	Root.	May 15, 1891
Dickey	Sixty-ninth.	Seventy-second.	Unfinished.
Earl	Shields avenue.	Stewart avenue.	Sept. 30, 1891
*East End avenue	Fifty-first.	110 ft. north.	Oct. 1, 1891
Ellis avenue.	Fifty-fifth.	Fifty-sixth.	Nov. 24, 1891

*Private Contract.

STREET DEPARTMENT.

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SOUTH DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
July 26, 1891	J. B. Smith & Co.	G. Cedar blocks.	250.00	125.00
May 24, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.	1,153.81	598.00
June 13, 1891	W. F. Hair.	C. G. Cedar blocks.	785.97	374.00
June 29, 1891	R. F. Conway.	C. G. Cedar blocks.	1,135.23	580.50
May 29, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.	1,035.30	598.00
June 11, 1891	R. F. Conway.	C. G. Cedar blocks.	3,600.78	2,314.79
May 27, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.	1,626.28	1,041.20
July 31, 1891	R. F. Conway.	C. G. Cedar blocks.	2,413.59	1,385.80
June 3, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.	1,292.41	596.50
June 5, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks.	1,761.56	1,093.60
Aug. 2, 1891	R. F. Conway.	C. G. Cedar blocks.	1,081.92	599.60
June 30, 1891	R. F. Conway.	C. G. Cedar blocks.	1,869.00	914.80
Aug. 29, 1891	A. J. McBean & Co.	C. G. Cedar blocks.	699.94	449.96
Sept. 10, 1891	Farrell, Luck & Co.	C. G. Cedar blocks.	895.03	601.14
Oct. 30, 1891	John V. McAdam.	C. G. Cedar blocks.	919.18	608.28
Sept. 9, 1891	Farrell, Luck & Co.	C. G. Cedar blocks.	1,135.50	567.75
Oct. 29, 1891	John V. McAdam.	C. G. Cedar blocks.	1,297.75	602.05
Oct. 4, 1891	Patrick Farrell.	C. C. Cedar blocks.	790.20	487.11
Dec. 19, 1891	O. Vider & Co.	C. G. Cedar blocks.	2,567.35	1,460.83
June 16, 1891	W. F. Hair.	W. C. G. Cedar blocks	963.55	558.00
May 9, 1891	Garden City Paving & Post Co.	C. Cedar blocks.	1,082.75	715.00
Dec. 31, 1891	Dolese & Shepard.	G. Macadam.	1,529.00	860.00
Dec. 31, 1891	Dolese & Shepard.	P. Macadam.	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.	W. C. Macadam.	4,496.00	1,190.00
Aug. 23, 1891	R. F. Conway.	S. C. F. Cedar blocks.	6,575.00	1,515.00
Unfinished.	O. Vider & Co.	S. C. F. Cedar blocks.	43,000.00	10,280.00
Unfinished.	R. F. Conway.	S. C. F. Cedar blocks.		2,500.00
Sept. 12, 1891	J. L. Fulton & Co.	G. Asphalt.	897.00	310.00
Oct. 31, 1891	R. F. Conway.	C. W. Cedar blocks.	2,835.00	708.95
Aug. 4, 1891	J. B. Smith & Co.	C. W. Cedar blocks.	2,955.32	699.90
June 30, 1891	Robert Herzog.	F. P. Macadam.	6,284.00	3,142.00
	Eggleston, Mallette & Brownell	P. Macadam.	8,033.00	2,582.00
June 30, 1891	Eggleston, Mallette & Brownell	S. C. Macadam.	2,304.00	610.00
May 9, 1891	Robert Hertzog.	C. Wall F. Cedar blocks.	6,793.00	1,292.00
May 16, 1891	J. B. Smith & Co.	C. Wall F. P. Cedar blocks.	10,108.35	1,965.00
Aug. 22, 1891	J. B. Smith & Co.	S. C. P. Cedar blocks.	8,862.65	2,611.80
June 1, 1891	J. L. Fulton & Co.	G. P. Asphalt.	400.00	200.00
Nov. 10, 1891	J. L. Fulton & Co.	G. P. Asphalt.	640.00	320.00
Sept. 22, 1891	Sackley & Peterson.	S. C. F. P. Macadam.	4,400.00	1,325.00
	C. B. Parsons.	S. C. F. P. Macadam.	2,020.00	606.00
June 15, 1891	J. B. Smith & Co.	C. Wall P. Cedar blocks.	22,361.85	5,296.23
June 8, 1891	J. J. Duffy.	S. C. Repair, Cedar block P.	570.02	135.00
Almost complete.	Kimball-Cobb Stone Co.	S. C. G. P. Macadam.	13,280.00	2,490.00
Aug. 16, 1891	R. F. Conway.	S. C. Cedar blocks.	5,620.00	1,515.00
Unfinished.	Eggleston, Mallette & Brownell	S. C. F. P. Macadam.	4,300.00	1,950.00
Oct. 1, 1891	Patrick Farrell.	S. C. Cedar blocks.	723.64	232.60
Dec. 31, 1891	Dolese & Shepard.	S. C. Macadam.	431.00	110.00
Dec. 28, 1891	C. B. Parsons.	W. C. Macadam.	2,368.67	608.00

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Ellis avenue.....	Sixtieth.....	Sixty-third.....	Sept. 28, 1891
Exchange avenue.....	Eighty-seventh.....	Ninety-second.....	Oct. 28, 1891
*Eightieth.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
*Eighty-first.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
*Eighty-second.....	Stony Island avenue.....	Woodlawn avenue.....	July 1, 1891
*N. ½ Eighty-third.....	Stony Island avenue.....	Madison avenue.....	July 1, 1891
Egan avenue.....	Wentworth avenue.....	Halsted.....	
*Emerald avenue.....	Fifty-fifth.....	Fifty-sixth.....	
Emerald avenue.....	Thirty-ninth.....	Forty-seventh.....	
Fuller.....	Archer avenue.....	Cologne.....	June 28, 1890
Fifth avenue.....	Thirty-fifth.....	Thirty-seventh.....	Sept. 3, 1891
Fifth avenue.....	Harrison.....	Polk.....	Dec. 17, 1891
*Fifth avenue.....	Harrison.....	Polk.....	
Forty-sixth.....	Drexel boulevard.....	Grand Boulevard.....	Oct. 6, 1891
Forty-fourth.....	Drexel boulevard.....	Ellis avenue.....	May 14, 1891
Forty-third.....	Cottage Grove avenue.....	St. Lawrence avenue.....	July 15, 1891
Forty-second.....	State.....	I. C. R. R.....	April 25, 1891
Forty-fifth.....	Oakenwald avenue.....	Drexel Boulevard.....	May 30, 1891
Forty-second.....	State.....	Grand Boulevard.....	July 13, 1891
Fifty-fourth place.....	Vincennes avenue.....	Grand Boulevard.....	Aug. 25, 1891
Fifty-first.....	Lake avenue.....	Madison avenue.....	Nov. 17, 1891
Fifty-fifth.....	East End avenue.....	Drexel Boulevard.....	May 15, 1891
Forrestville avenue.....	Lake avenue.....	Cottage Grove avenue.....	Aug. 6, 1891
*Fifty-fifth.....	Forty-eighth.....	Fifty-first.....	Oct. 16, 1891
*Forty-second.....	Cornell avenue.....	Everett avenue.....	July 16, 1891
Forty-fifth.....	Grand boulevard.....	Calumet avenue.....	Sept. 18, 1891
Forty-fifth.....	Wentworth avenue.....	Stewart avenue.....	Aug. 20, 1891
Forty-fifth.....	Stewart avenue.....	Halsted.....	Aug. 20, 1891
*Fifty-sixth.....	Ashland avenue.....	Hermitage avenue.....	
*Fifty-seventh.....	Ashland avenue.....	Hermitage avenue.....	
*Fifty-eighth.....	Ashland avenue.....	Hermitage avenue.....	
Farrell.....	Archer avenue.....	Hickory avenue.....	April 20, 1891
*Green.....	Sixty-third.....	Sixty-fourth.....	
Haines court.....	Archer avenue.....	Lyman.....	Aug. 17, 1891
Harrison.....	C. R. I. & P. R'y.....	River.....	Dec. 9, 1891
*Harrison.....	Fifth avenue.....	River.....	
Halsted.....	Thirty-ninth.....	Sixty-ninth.....	1890
Honore.....	Sixty-ninth.....	Seventy-second.....	
Honore.....	Sixty-seventh.....	Sixty-ninth.....	Unfinished.
*Hanover.....	Hundred and eleventh.....	Hundred and fifteenth.....	
*Hermitage avenue.....	Fifty-fifth.....	Fifty-eighth.....	
Indiana avenue.....	Thirty-ninth.....	Forty-third.....	Oct. 15, 1891
Ione place.....	Vincennes avenue.....	Grand boulevard.....	Aug. 26, 1891
*Jefferson avenue.....	Seventy-ninth.....	Eighty-first.....	July 1, 1891
*Jefferson avenue.....	Eighty-first.....	Eighty-third.....	July 1, 1891
*Justine.....	Fifty-third.....	Fifty-fifth.....	
Kimbark avenue.....	Forty-eighth.....	299 ft. south.....	Sept. 10, 1891
Lock.....	Archer avenue.....	Fuller.....	July 14, 1891

* Private Contract.

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Dec. 15, 1891	James Conlan.....	W. C. Macadam.....	7,111.90	1,807.50
May 30, 1891	Robert Herzog.....	W. C. F. Cedar blocks	13,520.31	3,269.00
Dec. 31, 1891	Dolese & Shepard.....	P. Macadam.....	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,609.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	9,671.00	2,560.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	2,304.00	1,220.00
Unfinished.	Garden City Paving & Post Co.	S. C. Cedar blocks...	5,000.00	3,800.00
Unfinished.	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
Unfinished.	R. F. Conway.....	S. C. Cedar blocks...	11,300.00	5,250.00
July 3, 1891	Sackley & Peterson.....	C. W. Cedar blocks...	6,229.59	1,475.40
Sept. 9, 1891	Garden City Paving & Post Co.	C. S. Cedar blocks...	5,391.17	1,276.86
Dec. 24, 1891	O. Vider & Co.....	C. S. Cedar blocks...	906.68	800.01
Unfinished.	Grand Central Railroad Co.	Repaving of Cedar...	890.00	801.00
Unfinished.	James Conlan.....	S. C. Macadam.....	8,311.11	2,200.00
July 16, 1891	A. J. McBean.....	S. C. Cedar blocks...	2,308.60	525.00
Sept. 23, 1891	Rockefeller & Palmer.....	S. C. G. Macadam.....	3,831.40	984.60
Aug. 18, 1891	Andrew Jaicks.....	S. C. Cedar blocks on Macadam	22,865.75	7,648.80
Sept. 18, 1891	Andrew Jaicks.....	S. C. Macadam.....	6,311.25	1,442.18
Aug. 22, 1891	J. V. McAdam.....	S. C. Cedar blocks...	9,501.13	2,280.30
Oct. 1, 1891	Isaac Robinson.....	S. C. Macadam.....	2,871.10	653.15
Dec. 18, 1891	Dolese & Shepard.....	W. C. Macadam.....	3,460.44	916.00
Nov. 23, 1891	Dolese & Shepard.....	S. C. Macadam.....	27,235.67	4,830.00
Sept. 16, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	14,720.40	4,626.55
Unfinished.	Sackley & Peterson.....	S. C. Macadam.....	8,555.50	1,952.00
Sept. 1, 1891	Dolese & Shepard.....	S. C. Macadam.....	2,327.00	616.00
Oct. 20, 1891	Dolese & Shepard.....	S. C. Macadam.....	1,038.00	292.00
Nov. 24, 1891	Farrell, Luck & Co.....	S. C. Cedar blocks...	6,200.00	1,265.00
Nov. 24, 1891	Farrell, Luck & Co.....	S. C. Cedar blocks...	9,700.00	2,300.00
Unfinished.	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
Unfinished.	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
Unfinished.	Dolese & Shepard.....	P. Macadam.....	2,230.00	1,250.00
May 9, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	2,702.87	703.90
Unfinished.	Eggleston, Mallette & Brownell	W. C. Cedar blocks...	2,110.00	633.00
Aug. 24, 1891	Patrick Farrell.....	C. W. Cedar blocks...	3,337.72	834.40
Dec. 31, 1891	W. F. Hair.....	Cedar blocks.....	1,534.15	610.95
Unfinished.	Grand Central Railroad Co.	Repaving of Cedar blocks...	525.56	430.00
June 27, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	36,200.00	19,500.00
Unfinished.	Kimbell-Cobb Stone Co.....	S. C. Macadam.....	.....	1,950.00
Unfinished.	Illinois Paving & Contr'g Co.	S. C. Burned clay...	4,366.00	1,260.00
Unfinished.	Eggleston, Mallette & Brownell	S. C. Macadam.....	8,033.00	2,582.00
Unfinished.	Dolese & Shepard.....	P. Macadam.....	3,200.00	1,800.00
Nov. 19, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	11,789.59	2,541.00
Aug. 29, 1891	Isaac Robinson.....	S. C. Macadam.....	2,363.68	595.80
Dec. 31, 1891	Dolese & Shepard.....	P. Macadam.....	2,169.00	1,220.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
Unfinished.	Dolese & Shepard.....	W. C. Macadam.....	5,170.00	1,250.00
Nov. 4, 1891	Dolese & Shepard.....	S. C. Macadam.....	1,385.70	346.10
July 17, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	3,793.36	898.40

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Lake avenue	Fifty-first	Fifty-seventh	Sept. 22, 1891
Lexington avenue	Fifty-fifth	Point 112½ ft. north	Aug. 30, 1891
Langley avenue	Forty-second	Forty-fifth	May 1, 1891
*Lafayette avenue	Seventy-third	Seventy-fourth	
*Lafin	Fifty-third	Fifty-fifth	
*Madison avenue	Eighty-first	Eighty-third	July 1, 1891
Monroe avenue	Fifty-fifth	Fifty-eighth	May 28, 1891
Morgan	Fifty-fourth	Fifty-fifth	June 8, 1891
Michigan avenue	Fifty-fifth	Sixty-third	
*Marshfield	Fifty-fifth	Fifty-eighth	
Ninetieth	Green Bay avenue	Manistee avenue	April 10, 1891
Ninety-third	Anthony avenue	Ashkum avenue	Jan. 8, 1891
*Hundred and twelfth	Stewart avenue	Wallace	
*Hundred and thirteenth	Stewart avenue	Wallace	
*Hundred and fourteenth	Stewart avenue	Wallace	
Ontario avenue	Eighty-ninth	Harber avenue	Feb. 21, 1891
Paulina	Archer avenue	Thirty-eighth	June 27, 1891
Portland avenue	Thirty-first	Thirty-third	June 19, 1891
Prairie avenue	Twenty-sixth	Thirty-first	June 16, 1891
Parnell avenue	Twenty-ninth	Thirty-first	Nov. 23, 1891
Park End avenue	Sixtieth	Sixty-first	May 29, 1891
*Parnell avenue	Hundred and eleventh	One hundred and fifteenth	
*Perry avenue	Seventy-third	Seventy-fourth	
*Peoria	Sixty-third	Sixty-fourth	
*Paulina	Fifty-fifth	Fifty-eighth	
Quinn	Archer avenue	Thirty-first	July 30, 1891
State	Jackson	Sixteenth	July 22, 1889
Shields avenue	Thirty-first	Thirty-third	July 15, 1891
Swift place	Wentworth avenue	Stewart avenue	Sept. 11, 1891
Seventy-fourth place	Mattison	Bissel avenue	Nov. 21, 1890
Sixty-second	Cottage Grove avenue	Greenwood avenue	June 22, 1891
Sixty-third	Cottage Grove avenue	Stony Island avenue	Oct. 15, 1890
W. ½ South Park avenue	Fifty-first	Fifty-fifth	July 27, 1891
South Chicago avenue	Commercial avenue	Ninety-second	May 1, 1891
Stewart avenue	Sixty-ninth	Seventy-first	April 24, 1891
Sherman	Sixty-third	Sixty-fifth	July 10, 1891
Sixty-seventh	Wright	Honore	June 27, 1891
Sixty-first	Wallace	Winter	July 7, 1891
Sixty-ninth	Vincennes avenue	State	
*Sangamon	Sixty-third	Sixty-fourth	
*Sixty-fourth	Halsted	Morgan	
*Sherman	Fifty-fifth	Fifty-sixth	
*Spencer avenue	Seventy-fifth	Seventy-sixth	Aug. 1, 1891
*Sydney avenue	Forty-fourth	Forty-fifth	Aug. 28, 1891
Sixty-second	Halsted	Wallace	April 15, 1891
Twenty-seventh	Hanover	Wallace	July 15, 1891
Thirty-seventh	Lake avenue	E. Terminus	June 30, 1891
Thirty-eighth	Indiana avenue	Grand boulevard	July 17, 1891

*Private Contract.

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 31, 1891	Kimbell-Cobb Stone Co.....	W. C. Brick paving...	6,267.63	1,522.00
Oct. 5, 1891	Dolese & Shepard.....	W. C. P. Macadam...	425.00	112.00
July 9, 1891	Sackley & Peterson.....	S. C. F. Macadam...	7,240.00	1,858.30
	Eggleston, Mallette & Brownell	W. C. F. Macadam...	2,066.00	620.00
	Dolese & Shepard.....	W. C. Macadam.....	5,170.00	1,250.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
Aug. 15, 1891	Sackley & Peterson.....	S. C. Macadam.....	7,055.70	1,800.20
Dec. 15, 1891	Chas. B. Parsons.....	1/2 W. 1/2 S. Curb Macadam...	2,626.00	622.00
Unfinished.	T. Byrne.....	S. C. Macadam.....		5,150.00
	Dolese & Shepard.....	P. Macadam.....	3,200.60	1,800.00
Aug. 7, 1891	Kimbell-Cobb Stone Co.....	W. C. F. Macadam...	23,453.30	3,874.00
July 15, 1891	Dolese & Shepard.....	W. C. F. Macadam...	2,906.00	1,868.00
	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,736.00	1,201.00
	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,742.00	3,203.00
	Eggleston, Mallette & Brownell	Pav. Macadam.....	3,748.00	1,205.00
June 13, 1891	Robert Herzog.....	F. Macadam.....	6,265.40	3,132.70
July 14, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	17,811.21	4,113.00
June 25, 1891	Patrick Farrell.....	S. C. Cedar blocks...	5,436.73	1,287.60
Dec. 8, 1891	Barber Asphalt Paving Co. ...	S. C. Sheet Asphalt...	11,482.04	2,719.76
Nov. 28, 1891	J. B. Smith & Co.....	S. C. Cedar blocks...	5,509.32	1,304.84
July 9, 1891	Rockefeller & Palmer.....	W. C. Macadam.....	2,154.00	597.20
	Eggleston, Mallette & Brownell	Macadam.....	8,036.00	2,583.00
	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,066.00	620.00
	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,110.00	633.00
	Dolese & Shepard.....	P. Macadam.....	3,200.00	1,800.00
Aug. 29, 1891	J. V. McAdam.....	S. C. Cedar blocks...	8,735.32	2,480.00
Oct. 26, 1889	Western Paving & Supply Co..	Re-Pav. Granite blocks	1,053.98	431.18
July 18, 1891	Patrick Farrell.....	S. C. Cedar blocks...	5,493.03	1,300.90
Sept. 17, 1891	Patrick Farrell.....	S. C. Cedar blocks...	4,436.89	1,050.72
May 29, 1891	Dolese & Shepard.....	W. C. Macadam.....	1,257.00	377.00
Aug. 12, 1891	Kimbell-Cobb Stone Co.....	W. C. Macadam.....	6,885.75	1,682.00
June 4, 1891	Kimbell-Cobb Stone Co.....	W. C. Macadam.....	17,660.00	3,120.00
Nov. 30, 1891	Dolese & Shepard.....	S. C. Macadam.....	5,258.02	2,434.64
Sept. 14, 1891	Kimbell-Cobb Stone Co.	C. Wall, Fill. Macadam	4,891.90	778.50
Aug. 19, 1891	Eggleston, Mallette & Brownell	S. C. Macadam.....	5,490.00	1,300.00
Aug. 19, 1891	Chas. B. Parsons.....	S. C. Macadam.....	4,735.00	1,421.00
Sept. 30, 1891	Eggleston, Mallette & Brownell	S. C. Macadam.....	2,100.00	624.00
Aug. 19, 1891	Sackley & Peterson.....	S. C. Macadam.....	2,772.00	656.00
Dec. 5, 1891	Kimbell-Cobb Stone Co.....	S. C. Macadam.....	620.00	310.00
	Eggleston, Mallette & Brownell	W. C. Macadam.....	2,110.00	633.00
	Eggleston, Mallette & Brownell	W. C. Macadam.....	3,863.00	1,159.00
	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
Sept. 8, 1891	Dennis McNamara.....	P. Macadam.....	711.00	600.00
Sept. 10, 1891	Dolese & Shepard.....	Concrete Curb Pav. Macadam.	1,155.00	433.00
Oct. 16, 1891	Sackley & Peterson.....	P. Macadam.....	4,407.50	1,322.35
July 29, 1891	Patrick Farrell.....	S. C. Cedar blocks...	3,578.89	847.00
June 30, 1891	White & Valentine.....	S. C. Cedar blocks...	668.88	157.00
July 24, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	4,401.59	1,042.40

STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Thirty-sixth place	Vincennes avenue.....	Stanton avenue	Sept. 11, 1891
Twenty-third	Wentworth avenue.....	Archer avenue.....	Sept. 17, 1891
Twenty seventh	Portland avenue.....	Stewart avenue.....	Sept. 29, 1891
Union avenue	Forty-seventh.....	Fifty-fifth.....	Unfinished.
Vincennes avenue.....	Forty-seventh.....	Fifty-first	Feb. 10, 1891
Wharton avenue.....	Sixtieth	Sixty-third	Oct. 19, 1891
*Washington avenue ..	Seventy-ninth.....	Eighty-first.....	July 1, 1891
*Washington avenue	Eighty-first.....	Eighty-third.....	July 1, 1891
Wright	Sixty-ninth.....	Seventy-second.....	Unfinished.
Western avenue	Illinois and Michigan Canal...	Thirty-ninth.....	July 27, 1891
Wright	Sixty-seventh.....	Sixty-ninth.....	July 14, 1891
Wabash avenue.....	Fifty-fifth	Sixty-third.....	Aug. 10, 1891
Wright	Sixty-fifth	Sixty-seventh.....	Sept. 1, 1891
Wallace.....	Thirty-ninth.....	Fortieth.....	Unfinished.
Wallace.....	Fortieth.....	Forty-third.....	Unfinished.
Wood	Archer avenue	Thirty-ninth.....	June 9, 1891
*Wallace	Hundred and eleventh.....	Hundred and fifteenth
*Winter.....	Fifty-fifth	Fifty-sixth.....

* Private Contract.

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Sept. 11, 1891	Garden City Paving & Post Co.	S. C. Cedar blocks...	1,601.27	740.00
Sept. 28, 1891	Patrick Farrell.....	P. Cedar blocks.....	8,504.05	2,014.12
Sept. 30, 1891	Patrick Farrell	S. C. P. Cedar blocks..	2,145.53	508.15
Unfinished.	R. F. Conway.....	S. C. Pav. Macadam.....		5,235.00
July 21, 1891	Sackley & Peterson.....	S. C. Macadam.....	11,630.00	2,638.80
Dec. 15, 1891	James Conlan.....	W. C. Macadam.....	7,105.09	1,805.70
Dec. 31, 1891	Dolese & Shepard	P. Macadam.....	1,084.00	610.00
Dec. 31, 1891	Dolese & Shepard.....	W. C. Macadam.....	4,496.00	1,190.00
Unfinished.	Eggleston, Mallette & Brownell	S. C. Macadam		1,950.00
Aug. 18, 1891	Garden City Paving & Post Co.	S. C. Macadam	17,589.00	4,300.00
Aug. 25, 1891	A. J. McBean.....	S. C. Macadam	4,585.00	1,254.00
Dec. 5, 1891	R. F. Conway.....	S. C. Cedar blocks.....	29,810.00	5,150.00
Nov. 5, 1891	Isaac Robinson.....	S. C. Macadam	4,570.00	1,370.00
Unfinished.	S. F. Hair.....	S. C. Cedar blocks.....		600.00
Unfinished.	Farrell, Luck & Co.....	S. C. Cedar blocks...		2,000.00
July 23, 1891	R. F. Conway.....	S. C. Cedar blocks...	18,135.00	4,180.00
.....	Eggleston, Mallette & Brownell	P. Macadam.....	8,036.00	2,583.00
.....	Dolese & Shepard.....	W. C. Macadam.....	1,700.00	510.00
TOTALS			846,397.25	269,758.35

Lineal feet paving250,973.35 feet, or 47.53 miles.

On unpaved streets, lineal feet curbing..... 18,785.00 feet, or 3.56 miles.

GRAND TOTALS.....269,758.35 feet, or 51.09 miles.

STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Judd and Wilson.....	Clinton and Jefferson...	July 28, 1891
Alley.....	Washington and Madison...	Green and Peoria.....	Aug. 5, 1891
Alley.....	Maxwell and Liberty...	Union and Halsted.....	Dec. 17, 1891
Alley.....	Millard and Lawndale...	W Twenty-third & W Twenty-fourth	Oct. 17, 1891
Alley.....	Maxwell and West Twelfth...	Halsted and Newberry...	Sept. 26, 1891
Alley.....	West Twelfth and Dussold.....	Union and Halsted.....	Dec. 17, 1891
Alley.....	Union and Halsted.....	Barker and Wright.....	Oct. 4, 1891
Alley.....	Ashland and Paulina...	Chicago and Superior...	Sept. 29, 1891
Alley.....	Chicago ave. and Huron	Ayers court and Center.	Nov. 16, 1891
Alley.....	Paulina and Lull place.	Milwaukee and Moorman	Sept. 9, 1891
Alley.....	Milwaukee avenue and Robey...	Evergreen, Potomac and Lincoln	July 13, 1891
Alley.....	Indiana and Ohio.....	Carpenter and Curtis...	July 24, 1891
Alley.....	Noble and Armour.....	Erie and Ohio.....	July 13, 1891
Alley.....	Robey and Lincoln.....	Emerson and Indiana...	June 3, 1891
Alley.....	Bickerdike and Armour.	Huron and Erie.....	July 13, 1891
Alley.....	Wood and Lincoln.....	Chicago and Superior...	June 3, 1891
Alley.....	Centre ave. and Noble..	Chicago avenue and Fry	Aug. 6, 1891
Alley.....	Armour and Ashland avenue....	Chicago avenue and Superior..	July 13, 1891
Alley.....	Erie and Ohio.....	Ada and Noble.....	Nov. 16, 1891
Alley.....	Evergreen and Robey...	Milwaukee avenue and Park...	July 29, 1891
Alley.....	Holt and Ashland ave..	Chicago and Fry.....	Oct. 19, 1891
Alley.....	Hoyne ave. and Leavitt.	Austin avenue and Kinzie	Oct. 27, 1891
Alley.....	Robey and Leavitt.....	Evergreen and Potomac	July 1, 1891
Alley.....	Noble and Currier.....	Milwaukee and Wade...	Oct. 13, 1891
Alley.....	Brigham and Paulina...	Milwaukee and Dean...	Nov. 7, 1891
Alley.....	Bradley and Blackhawk.	Cleaver and Holt.....	Sept. 17, 1891
Alley.....	Elk and Ashland ave..	Milwaukee avenue and Bauwans.	Oct. 15, 1891
Alley.....	Chapin and Division.....	E of Noble & E & W Alley to R. R.	Sept. 14, 1891
Alley.....	Adams and Jackson.....	Ashland and Laflin.	Aug. 17, 1891
Alley.....	East Aberdeen.....	Jackson and Van Buren	Sept. 5, 1891
Alley.....	Hoyne and Leavitt.....	Lake and Walnut.....	Oct. 12, 1891
Alley.....	Halsted and Green.....	Randolph and Lake...	July 21, 1891
Alley.....	Halsted and Green.....	Lake and Fulton.....	July 17, 1891
*Alley.....	Randolph, south 230 ft.	Bet. Canal and W. Water	Sept. 28, 1891
Alley.....	Jackson and Adams.....	Aberdeen and Center...	Aug. 14, 1891
Alley.....	Jackson and Van Buren..	Peoria and Sangamon...	May 14, 1891
Alley.....	Leavitt and Hoyne ave.	Park avenue and Washington...	Sept. 5, 1891
Alley.....	Lake and Fulton.....	Elizabeth and Ann.....	July 21, 1891
Alley.....	Monroe and Adams.....	Throop and Center avenue.....	Oct. 12, 1891
Alley.....	Morgan and Aberdeen..	Harrison and Congress.	June 23, 1891
Alley.....	Madison and Washington.....	Bishop court and Ogden avenue.	June 23, 1891
Alley.....	Paulina and Wood.....	Walnut and Fulton.....	Oct. 12, 1891
Alley.....	Paulina and Ashland ave	Madison and Ogden place	Nov. 20, 1891
Alley.....	Robey and Lincoln.....	Lake and Walnut.....	Oct. 12, 1891
Alley.....	Robey and Winchester avenue...	Adams and Jackson...	Nov. 19, 1891
Alley.....	Robey and Hoyne.....	Washington and Warren avenue.	Sept. 5, 1891
Alley.....	School.....	Clinton and Jefferson...	Nov. 18, 1891
Alley.....	Van Buren and Jackson.	Jefferson and Desplaines	Nov. 5, 1891

* Private Contract.

STREET DEPARTMENT.

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WEST DIVISION, 1891.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
July 31, 1891	P. Farrell.....	W. C. G. Cedar blocks	454.62	358.91
Aug. 13, 1891	P. Farrell.....	W. C. G. F. Cedar blocks ..	1,349.90	610.00
Dec. 19, 1891	O. Vider & Co.....	W. C. F. G. Cedar blocks. . .	477.00	433.64
Oct. 18, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	996.07	597.64
Oct. 8, 1891	P. Farrell.....	W. C. F. Cedar blocks	1,426.74	930.12
Dec. 19, 1891	O. Vider & Co.....	W. C. Cedar blocks...	454.89	426.46
Oct. 10, 1891	J. V. McAdam & Co.....	W. C. Cedar blocks...	282.24	173.98
Oct. 3, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	1,328.00	600.00
Nov. 24, 1891	A. J. McBean & Co.....	W. C. F. Cedar blocks	1,007.02	813.00
Sept. 21, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	447.92	350.10
July 28, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks...	3,985.15	2,009.80
July 28, 1891	P. Farrell.....	W. C. C. Cedar blocks	605.22	320.30
July 23, 1891	P. Farrell.....	W. C. F. Cedar blocks	1,167.60	754.80
June 8, 1891	W. F. Hair.....	C. G. Cedar blocks ..	603.50	600.00
July 17, 1891	J. B. Smith & Co.....	W. C. C. Cedar blocks	559.00	377.00
June 9, 1891	Garden City Paving & Post Co.	W. C. C. Cedar blocks	1,068.97	600.00
Aug. 17, 1891	P. Farrell.....	W. C. C. Cedar blocks	2,290.36	1,204.00
July 20, 1891	A. J. McBean & Co.....	W. C. C. Cedar blocks	561.28	377.00
Nov. 18, 1891	O. Vider & Co.....	W. C. F. Cedar blocks	827.37	482.00
Aug. 11, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks ..	1,746.24	1,041.70
Oct. 27, 1891	J. V. McAdam & Co.....	W. C. C. Cedar blocks	690.36	612.00
Oct. 30, 1891	O. Vider & Co.....	W. C. C. Cedar blocks	1,292.16	602.65
July 11, 1891	Garden City Paving & Post Co.	W. C. Cedar blocks ..	2,032.87	1,200.00
Nov. 7, 1891	A. J. McBean & Co.....	W. C. F. Cedar blocks	1,327.09	774.57
Nov. 17, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,166.62	704.67
Oct. 11, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,343.92	771.23
Oct. 24, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,201.40	700.20
Sept. 23, 1891	J. V. McAdam & Co.....	W. C. F. Cedar blocks	1,035.17	665.00
Nov. 23, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	1,906.00	1,048.00
Oct. 21, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	667.50	396.20
Oct. 28, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,034.29	601.00
Aug. 7, 1891	P. Farrell.....	W. C. G. Cedar blocks	403.20	252.00
July 18, 1891	A. J. McBean & Co.....	W. C. G. Cedar blocks	266.69	250.00
Oct. 9, 1891	Private contract.....	Granite.....	460.00	230.00
Aug. 17, 1891	P. Farrell.....	C. G. Cedar blocks...	494.59	397.44
May 21, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	682.17	383.72
Oct. 8, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	1,018.14	598.75
July 28, 1891	P. Farrell.....	W. C. G. Cedar blocks	947.58	495.83
Nov. 4, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	2,508.00	1,050.00
July 29, 1891	Garden City Paving & Post Co.	W. C. F. Cedar blocks	1,831.97	755.00
July 4, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	900.61	638.31
Nov. 13, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	1,033.44	600.00
Dec. 9, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	972.00	581.00
Oct. 28, 1891	J. V. McAdam & Co.....	W. C. G. Cedar blocks	650.57	600.00
Nov. 23, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	880.78	1,283.04
Oct. 6, 1891	J. V. McAdam & Co.....	C. G. Cedar blocks...	1,003.33	596.28
Nov. 26, 1891	A. J. McBean & Co.....	W. C. G. Cedar blocks	627.33	320.00
Nov. 7, 1891	O. Vider & Co.....	W. C. G. Cedar blocks	779.00	398.00

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Van Buren and York...	Ashland and Marshfield avenue..	May 14, 1891
Alley.....	Wood and Honore.....	Adams and Jackson.....	May 14, 1891
Alley.....	Western avenue and Campbell..	Madison and Warren avenue....	May 14, 1891
Alley.....	Jackson and Adams.....	Ashland avenue and Ladin.....	Sept. 5, 1891
Alley.....	Robey and Ashland ave.....	Warren and Washington.....	Nov. 11, 1891
Ann.....	Fulton.....	C. & N.-W. R'y.....	April 18, 1891
Arthington.....	Loomis.....	Sibley.....	May 20, 1891
Ashland avenue.....	Robey.....	Oliver.....	April 15, 1891
Adams.....	Kedzie.....	Central Park.....	May 21, 1891
Albany avenue.....	Colorado avenue.....	Harrison.....	May 21, 1891
Ambrose.....	Wood.....	Leavitt.....	Aug. 1, 1891
Bonney avenue.....	Ogden avenue.....	West Twenty-sixth.....	
Burlington.....	West Sixteenth.....	West Eighteenth.....	April 20, 1891
Basil avenue.....	North avenue.....	Bloomington road.....	Oct. 5, 1891
Blanche.....	Noble.....	Ashland avenue.....	Sept. 16, 1891
Colorado avenue.....	Jackson.....	Central Park.....	June 5, 1891
Columbia place.....	Lake.....	Kinzie.....	May 21, 1891
Congress.....	Ashland avenue.....	Ogden avenue.....	Sept. 14, 1891
Cortland.....	Western avenue.....	Humboldt boulevard.....	
California avenue.....	Chicago avenue.....	Division.....	Aug. 28, 1891
Chicago avenue.....	Leavitt.....	California avenue.....	June 12, 1891
Clarinda.....	Ashland avenue.....	Wood.....	July 27, 1891
Clarinda.....	Ashland avenue.....	Holt.....	Oct. 5, 1891
California avenue.....	West Twenty-second.....	West Twenty-sixth.....	Oct. 1, 1890
Central Park.....	Ogden avenue.....	West Twenty-second.....	May 15, 1891
Central Park.....	Douglas Park boulevard.....	West Fifteenth.....	May 7, 1891
Clayton.....	Morgan.....	Fisk.....	May 18, 1891
Clifton Park avenue.....	West Twenty-second.....	West Twenty-sixth.....	May 1, 1891
Central Park.....	West Twenty-second.....	West Twenty-sixth.....	
Coulter.....	Robey.....	Hoyne Avenue.....	May 27, 1891
Dean.....	Paulina.....	Brigham.....	May 6, 1891
Dixon.....	North avenue.....	Wabansia avenue.....	Mar. 2, 1891
Dudley.....	North avenue.....	Armitage avenue.....	Nov. 20, 1891
Drake avenue.....	Central Park boulevard.....	Ohio.....	Aug. 14, 1891
Evans court.....	Union.....	Halsted.....	Feb. 21, 1891
Elk Grove.....	North avenue.....	Armitage avenue.....	Jan. 2, 1891
Eighteenth place.....	Brown avenue.....	May avenue.....	July 17, 1891
Eleventh.....	Blue Island avenue.....	May.....	May 21, 1891
Erie.....	Leavitt.....	Western avenue.....	Nov. 2, 1891
Elm.....	Milwaukee avenue.....	Lincoln.....	Nov. 8, 1891
Fairfield avenue.....	Twelfth.....	Harvard.....	June 10, 1891
Flournoy.....	California.....	Francisco.....	Oct. 4, 1891
Flournoy.....	California.....	Francisco.....	April 14, 1891
Fillmore.....	Western avenue.....	Campbell avenue.....	Aug. 3, 1891
Fairfield avenue.....	West Lake.....	Kinzie.....	Aug. 3, 1891
Fullerton avenue.....	Elston avenue.....	Milwaukee avenue.....	Nov. 21, 1891
Fullerton avenue.....	Milwaukee avenue.....	Kedzie avenue.....	Aug. 19, 1891
Fifteenth.....	Western avenue.....	California avenue.....	June 6, 1891

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 21, 1891	R. F. Conway.....	W. C. G. Cedar blocks	1,893.40	1,101.21
June 11, 1891	W. F. Hair.	W. C. G. Cedar blocks	344.88	266.80
June 9, 1891	W. F. Hair.	W. C. G. Cedar blocks	822.00	493.20
Oct. 7, 1891	J. V. McAdam & Co.	W. C. G. Cedar blocks	1,906.00	1,048.00
Dec. 5, 1891	J. V. McAdam & Co.	W. C. G. Cedar blocks	4,002.81	4,602.03
May 29, 1891	R. F. Conway.....	C. G. Cedar blocks...	2,101.89	630.57
May 20, 1891	J. B. Smith & Co.	C. G. Cedar blocks...	1,582.34	274.76
May 19, 1891	J. B. Smith & Co.	C. G. Cedar blocks...	4,784.88	1,127.33
Aug. 19, 1891	Western Paving & Supply Co.	C. G. Sheet Asphalt...	11,338.47	2,685.43
July 18, 1891	R. F. Conway.....	C. F. Cedar blocks...	6,268.74	1,484.70
Oct. 8, 1891	J. B. Smith & Co.	C. G. Cedar blocks...	10,758.08	2,547.97
	Barber Asphalt Co.	Asphaltum.	10,885.89	3,265.77
July 24, 1891	J. V. McAdam & Co.	C. G. Cedar blocks...	2,741.78	822.53
Oct. 29, 1891	R. F. Conway.....	C. F. Cedar blocks...	4,324.39	1,295.59
Oct. 14, 1891	J. B. Smith & Co.	C. Wall F. Cedar blocks...	4,639.85	1,097.18
July 25, 1891	O. Vider & Co.	C. G. Cedar blocks...	7,764.26	1,838.94
July 13, 1891	R. F. Conway.....	C. G. Cedar blocks...	3,237.94	971.38
Nov. 24, 1891	Western Paving & Supply Co.	C. G. Sheet Asphalt...	8,342.49	1,975.85
	R. F. Conway.....	C. F. Cedar blocks...	13,837.83	4,151.35
June 4, 1891	Western Paving & Supply Co.	C. F. Cedar blocks...	9,833.31	2,555.40
Sept. 26, 1891	A. J. McBean & Co.	C. C. F. Cedar blocks	4,115.84	16,167.68
Sept. 18, 1891	O. Vider & Co.	C. C. Cedar blocks...	3,730.47	1,040.30
Oct. 23, 1891	J. B. Smith & Co.	C. C. F. Cedar blocks	1,690.04	600.00
June 18, 1891	Cardon & Co.	C. F. Cedar blocks...	9,924.22	2,350.47
May 20, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	3,840.41	960.10
May 14, 1891	Garden City Paving Co.	C. F. Cedar blocks...	4,888.23	1,206.19
May 19, 1891	Garden City Paving Co.	C. F. Cedar blocks...	1,226.14	396.95
June 5, 1891	O. Vider & Co.	C. F. Cedar blocks...	8,998.33	2,699.50
Unfinished.	J. V. McAdam & Co.	Curbing & Filling...		2,800.00
Aug. 3, 1891	P. Farrell.	C. F. Cedar blocks...	2,813.22	661.07
May 9, 1891	J. B. Smith & Co.	G. Cedar blocks...	1,710.07	401.80
June 18, 1891	J. V. McAdam & Co.	C. Wall F. Cedar blocks...	2,067.86	624.52
June 15, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	8,188.80	1,924.91
Oct. 10, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	2,175.21	503.20
June 9, 1891	P. Farrell.	C. F. Cedar blocks...	1,813.34	453.34
May 23, 1891	A. J. McBean.	C. F. Cedar blocks...	10,754.44	5,093.70
July 23, 1891	A. J. McBean.	C. F. Cedar blocks...	3,651.44	1,173.68
May 23, 1891	J. B. Smith & Co.	C. C. Cedar blocks...	2,291.94	736.70
Dec. 2, 1891	J. V. McAdam & Co.	C. Cedar blocks...	5,552.41	1,267.40
Unfinished.	G. B. McBean.	C. Cedar blocks...	2,700.00	600.00
June 13, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	4,254.13	1,259.44
Oct. 4, 1891	George B. McBean.	G. Cedar blocks...	2,047.73	614.00
May 1, 1891	R. F. Conway...	Curbing & Filling...		615.16
Nov. 10, 1891	R. F. Conway.....	C. F. Cedar blocks...	2,073.33	602.80
Aug. 15, 1891	R. F. Conway.....	C. F. Cedar blocks...	4,885.74	1,157.10
Oct. 12, 1891	O. Vider & Co.	W. C. F. Cedar blocks	37,105.30	6,349.08
Sept. 19, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	11,694.86	1,748.40
July 21, 1891	Western Paving & Supply Co.	C. F. Cedar blocks...	10,882.85	2,446.22

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Hoyne avenue.....	West Eighteenth.....	West Twenty-second...	Oct. 1, 1891
Heine	North avenue.....	Bloomington road.....	.....
Hoyne avenue.....	Armitage avenue.....	Asylum place.....	Aug. 4, 1891
Hervey	Wood.....	Robey.....	Oct. 4, 1890
Halsted.....	Harrison.....	Van Buren.....	Nov. 1, 1891
Hope.....	Blue Island avenue.....	Morgan.....	.....
Jane.....	Western avenue.....	California avenue.....	June 3, 1891
Julian	Ashland avenue.....	Wood.....	April 27, 1891
Kedzie avenue.....	Central Park boulevard.....	Augusta.....	May 20, 1891
Kedzie avenue.....	West Twelfth.....	West Twenty-second...	Aug. 1, 1891
Lafin	West Fourteenth.....	West Sixteenth.....	May 18, 1891
Lafin	West Sixteenth.....	Blue Island avenue.....	May 8, 1891
Lawndale avenue	West Twenty-sixth.....	West Thirty-first.....	Sept. 1, 1891
Lytle	McAlister place.....	Harrison.....	May 27, 1891
Lull place.....	Wood.....	E line lots 3 & 4 Spear's addition	Nov. 3, 1890
Milwaukee avenue	Fullerton avenue.....	Logan square.....	July 25, 1891
Macedonia	Division.....	Ellen.....	April 11, 1891
Mantene court.....	Milwaukee avenue.....	South terminus.....	Aug. 20, 1891
Maplewood avenue.....	Division.....	North avenue.....	July 30, 1891
Marble place.....	Desplaines.....	Halsted.....	June 23, 1891
Maplewood avenue.....	Lake.....	Railroad.....	April 23, 1891
Madison	Viaduct.....	Jefferson.....	April 15, 1891
Monroe	Kedzie avenue.....	Central Park avenue.....	May 21, 1891
W. Madison.....	Intersection.....	Ashland avenue.....	June 15, 1891
Millard avenue	West Twenty-sixth.....	West Twenty-eighth...	Oct. 17, 1891
North avenue.....	Kedzie avenue.....	Tinkham avenue.....	Oct. 19, 1891
Nutt.....	West Sixteenth.....	West Eighteenth.....	May 28, 1891
Nutt court	West Nineteenth.....	West Twentieth.....	Oct. 14, 1891
Ogden avenue.....	Millard avenue.....	Crawford avenue.....	Sept. 1, 1891
Owasco	Rockwell.....	Washtenaw avenue.....	April 4, 1891
Ohio	Robey.....	Western avenue.....	Sept. 28, 1891
Osborne	Indiana.....	Ohio.....	Nov. 5, 1891
Potomac avenue	Western avenue.....	California avenue.....	Sept. 21, 1891
Paulina	Wabansia avenue.....	Armitage avenue.....	Nov. 1, 1890
Park avenue.....	Kedzie avenue.....	Homan avenue.....	June 21, 1891
Robey	West Eighteenth.....	Blue Island avenue.....	May 26, 1891
Ruble	West Eighteenth.....	Canalport avenue.....	June 10, 1891
Randolph	South Branch R.....	Desplaines.....	Aug. 21, 1891
Rice.....	Wood.....	Lincoln.....	July 2, 1891
Rockwell	North avenue.....	Armitage avenue.....	Aug. 24, 1891
Seymour	North avenue.....	Armitage avenue.....	Sept. 24, 1891
Sheldon.....	Washington.....	Randolph.....	Aug. 2, 1891
St. Louis avenue.....	Lake.....	Kinzie.....	June 22, 1891
Sacramento avenue.....	Lake.....	Kinzie.....	June 12, 1891
W. Superior.....	Rockwell.....	Washtenaw avenue.....	July 20, 1891
Sawyer avenue	Ogden avenue.....	C. B. & Q. R. R.....	.....
Sixteenth	Canal.....	Halsted.....
Sixteenth	Halsted.....	Throop.....	Oct. 23, 1890

STREET DEPARTMENT.

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DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 2, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	7,168.16	1,697.72
	R. F. Conway	C. F. Cedar blocks...	4,300.00	1,250.00
Aug. 12, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	5,778.60	1,368.62
June 1, 1891	R. F. Conway	C. F. Cedar blocks...	5,718.28	1,355.75
Dec. 1, 1891	Wisconsin Central Railroad Co.	Cedar blocks...	2,170.00	890.00
	P. Farrell	C. G. Cedar blocks...	1,997.00	642.00
July 31, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	11,461.84	5,451.27
May 26, 1891	J. B. Smith & Co.	Cedar blocks...	4,949.16	1,237.29
July 16, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	13,928.30	3,040.72
Oct. 12, 1891	R. F. Conway	C. F. Cedar blocks...	21,933.48	5,167.57
May 21, 1891	P. Farrell	C. F. Cedar blocks...	3,677.09	870.89
May 25, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	6,444.07	1,526.23
Sept. 29, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	9,507.74	2,852.32
July 3, 1891	White & Valentine	C. G. Cedar blocks...	2,008.25	475.64
July 20, 1891	White & Valentine	C. Cedar blocks...	1,285.34	321.50
Sept. 21, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	8,446.34	2,000.45
May 25, 1891	A. J. McBean	C. G. Cedar blocks...	1,598.40	756.90
Aug. 31, 1891	Garden City Paving & Post Co.	C. G. Cedar blocks...	1,288.16	376.00
Sept. 3, 1891	R. F. Conway	C. Cedar blocks...	9,189.82	2,566.50
July 22, 1891	P. Farrell	C. G. Cedar blocks...	1,596.00	798.00
June 8, 1891	J. J. Duffy & Co.	C. F. Cedar blocks...	3,573.73	1,072.12
Oct. 17, 1891	R. F. Conway	W. P. P. Cedar blocks	3,495.05	983.00
Sept. 17, 1891	Western Paving & Supply Co.	C. G. Sheet Asphalt...	11,578.33	2,803.05
July 14, 1891	Barber Asphalt Co.	Sheet Asphalt...	539.11	151.61
Oct. 22, 1891	A. J. McBean & Co.	C. F. Cedar blocks...	4,795.70	1,433.93
Nov. 25, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	21,506.30	3,225.96
May 29, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	2,569.00	606.85
Oct. 31, 1891	P. Farrell	C. F. Cedar blocks...	1,117.02	456.96
Sept. 11, 1891	R. F. Conway	W. C. G. Cedar blocks	8,922.63	2,538.69
July 11, 1891	R. F. Conway	C. F. Cedar blocks...	1,803.01	571.27
Oct. 28, 1891	R. F. Conway	C. C. Cedar blocks...	10,603.64	2,598.20
Nov. 21, 1891	G. B. McBean	C. Cedar blocks...	1,437.64	460.00
Oct. 13, 1891	A. J. McBean & Co.	C. Cedar blocks...	11,014.06	2,194.36
May 30, 1891	A. J. McBean	C. F. Cedar blocks...	8,169.12	3,869.50
July 10, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	4,284.11	1,285.83
July 22, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	13,334.70	3,141.68
June 11, 1891	J. V. McAdam & Co.	C. F. Cedar blocks...	1,795.99	588.80
Nov. 12, 1891	R. F. Conway	W. P. P. Granite...	5,407.76	1,238.00
July 17, 1891	J. B. Smith & Co.	C. C. Cedar blocks...	2,386.06	599.00
Sept. 28, 1891	R. F. Conway	C. F. Cedar blocks...	10,855.13	2,578.06
Oct. 26, 1891	O. Vider & Co.	C. F. Cedar blocks...	11,109.80	2,631.27
Aug. 15, 1891	Garden City Paving & Post Co.	P. Cedar blocks...	1,794.07	424.44
July 16, 1891	R. F. Conway	C. F. Cedar blocks...	3,976.45	1,192.94
July 10, 1891	R. F. Conway	C. P. Cedar blocks...	5,824.38	1,379.46
Sept. 5, 1891	R. F. Conway	C. F. Cedar blocks...	2,551.24	605.00
Unfinished.	A. J. McBean & Co.	C. F. Cedar blocks...	5,877.00	1,763.10
Unfinished.	John Ruddy	C. F. Cedar blocks...		2,000.00
June 5, 1891	J. B. Smith & Co.	C. F. Cedar blocks...	14,130.14	3,329.09

STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Sixteenth	Western avenue.....	California avenue.....	May 9, 1891
Seventeenth.....	Lincoln.....	Robey.....	May 1, 1891
Spaulding avenue.....	Ogden avenue.....	C. B. & Q. R. R.....	June 16, 1891
Shelby court	West Nineteenth.....	West Twentieth.....	June 12, 1891
String	Canalport avenue.....	West Twenty-first.....	July 20, 1891
Turner avenue.....	Ogden avenue.....	West Twenty-first.....	Oct. 14, 1891
Twelfth.....	Kedzie avenue.....	Douglas Park boulevard	Jan. 12, 1891
Twenty-first.....	Halsted.....	Johnson.....	Oct. 2, 1891
Twenty-second.....	Lawndale avenue.....	Hamlin avenue.....	Oct. 14, 1891
Twenty-third.....	Lawndale avenue.....	Hamlin avenue.....	June 9, 1891
Twenty-third.....	Central Park avenue.....	Lawndale avenue.....	June 16, 1891
Troy	Twelfth.....	Fillmore.....	May 15, 1891
Thomas	West line of Seymour...	East curb line California avenue	Oct. 15, 1890
Thomas	Western avenue.....	Seymour.....	July 18, 1891
Trustee.....	Kinzie.....	Austin avenue.....	Sept. 10, 1891
Van Buren	Clinton.....	Halsted.....	Nov. 1, 1891
Washburne avenue.....	Wood.....	Lincoln.....	May 27, 1891
Wood	West Fifteenth.....	Blue Island avenue.....	May 28, 1891
Wabansia avenue	Robey.....	Milwaukee avenue.....	Aug. 1, 1891
Washtenaw avenue.....	North avenue.....	Armitage avenue.....	Aug. 17, 1891
Walnut	Homan avenue.....	Central Park avenue...	July 7, 1891
Whipple	Colorado avenue.....	Van Buren.....	April 15, 1891
Washington.....	Canal.....	Halsted.....	Oct. 28, 1891
Washington.....	West Fortieth.....	West Fifty-second.....	Nov. 1, 1890
Winchester avenue.....	Ogden avenue.....	Polk.....	April 10, 1891
Zion place	Throop.....	Loomis.....	Aug. 17, 1891

DIVISION, 1891—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
June 11, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	10,601.26	2,497.68
Aug. 11, 1891	P. Farrell.....	C. F. Cedar blocks...	2,935.13	695.16
June 23, 1891	A. J. McBean & Co.....	C. F. Cedar blocks...	5,667.75	1,694.68
June 13, 1891	P. Farrell.....	C. F. Cedar blocks...	1,138.74	456.71
July 25, 1891	P. Farrell.....	C. F. Cedar blocks...	2,335.14	700.54
Oct. 17, 1891	R. F. Conway.....	C. F. Cedar blocks...	4,725.95	1,119.30
Sept. 1, 1891	Western Paving & Supply Co..	C. F. Cedar blocks...	19,707.25	4,012.79
Oct. 24, 1891	P. Farrell.....	C. F. Cedar blocks...	1,433.34	381.66
Oct. 16, 1891	A. J. McBean & Co.....	C. G. Cedar blocks...	2,968.60	556.61
July 20, 1891	Western Paving & Supply Co..	C. F. Cedar blocks...	1,507.54	542.71
July 15, 1891	J. V. McAdam & Co.....	C. F. Cedar blocks...	2,006.69	602.01
May 16, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	2,039.10	611.73
June 16, 1891	Western Paving & Supply Co..	C. P. Cedar blocks...	8,496.85	2,008.18
Sept. 8, 1891	J. B. Smith & Co.....	C. F. Cedar blocks...	3,069.52	604.00
Oct. 5, 1891	Talbot Paving Co.....	C. C. Cedar blocks...	1,006.44	323.50
Dec. 1, 1891	Wisconsin Central Railroad Co.	P. Cedar blocks.....	3,931.00	1,608.00
Aug. 11, 1891	R. F. Conway.....	C. F. Cedar blocks...	2,498.55	619.48
June 10, 1891	P. Farrell.....	C. F. Cedar blocks...	14,946.95	3,374.62
Aug. 28, 1891	Garden City Paving & Post Co.	C. F. Cedar blocks...	3,091.24	734.04
Oct. 2, 1891	R. F. Conway.....	C. F. Cedar blocks...	8,634.57	2,586.06
Oct. 10, 1891	Western Paving & Supply Co..	C. F. Sheet Asphalt..	4,572.18	1,371.65
May 16, 1891	J. B. Smith & Co.....	G. P. Cedar blocks...	4,383.72	1,315.12
Dec. 18, 1891	P. Farrell.....	W. P. P. Cedar blocks	9,440.00	2,110.00
July 23, 1891	Sackley & Peterson.....	W. C. P. Macadam...	36,131.86	8,557.81
June 9, 1891	J. B. Smith & Co.....	C. G. P. Macadam...	3,894.10	922.29
Aug. 31, 1891	P. Farrell.....	C. F. P. Macadam...	2,661.92	628.80
TOTALS.....			779,406.34	242,207.71

Lineal feet paving.....236,792.55 feet, or 44.85 miles.

On unpaved streets, lineal feet curbing, filling, etc. 5,415.16 feet, or 1.02 miles.

Viaduct approaches.....6,547.20 feet, or 1.24 miles.

GRAND TOTALS.....248,754.91 feet, or 47.11 miles.

SUMMARY OF STREETS IMPROVED DURING 1891.

PAVEMENT.	NORTH DIVISION, INCLUDING LAKE VIEW.			SOUTH DIVISION, INCLUDING HYDE PARK AND LAKE.			WEST DIVISION, INCLUDING JEFFERSON AND CICERO.			TOTALS.		
	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.
Cedar	190,729.44	58,834.74	11.14	425,555.52	116,473.69	22.06	690,150.25	214,513.38	40.63	1,306,435.21	389,821.81	73.82
Asphalt	28,138.87	7,608.28	1.44	13,419.04	3,549.76	0.67	47,256.47	12,253.36	2.32	88,814.38	23,411.40	4.43
Granite .....	.....	.....	.....	1,053.98	431.18	0.08	5,897.76	1,463.00	0.28	6,921.74	1,899.18	0.36
Macadam	200,085.60	60,147.50	11.39	395,735.08	127,736.72	24.20	36,131.86	8,557.81	1.62	631,952.54	196,442.03	37.21
Burnt Clay .....	.....	.....	.....	4,366.00	1,260.00	0.23	.....	.....	.....	4,366.00	1,260.00	0.23
Brick .....	.....	.....	.....	6,267.63	1,522.00	0.29	.....	.....	.....	6,267.63	1,522.00	0.29
Viaduct Approaches .....	.....	.....	.....	.....	.....	.....	.....	6,547.20	1.24	.....	6,547.20	1.24
TOTALS	418,953.91	126,590.52	23.97	846,397.25	250,973.35	47.53	779,406.34	243,339.75	46.09	2,044,757.50	620,903.62	117.59
Curb and Fill, Curb Wall and Fill, etc. ....	.....	4,127.40	0.78	.....	18,785.00	3.56	.....	5,415.16	1.02	.....	28,327.56	5.36
GRAND TOTALS .....	.....	130,717.92	24.75	.....	269,758.35	51.09	.....	248,754.91	47.11	.....	649,331.18	122.95

DISTRIBUTION OF KINDS OF PAVEMENTS.

The following shows the kind of pavement in use in each division of the city, December 31, 1891:

DIVISIONS.	Wood Block, Miles.	Macadam, Miles.	Stone, Miles.	Asphalt Block, Miles.	Sheet Asphalt, Miles.	Brick, Miles.	Burned Clay, Miles.	Grand Total, Miles.
North	110.59	43.18	.58	.....	8.11	.....	.....	157.41
South.....	116.49	190.80	21.84	8.59	1.72	.67	.23	324.84
West.....	252.16	22.33	1.47	.....	4.18	.....	.....	280.14
Viaduct Approaches...	2.89	.....	.....	.....	.....	.....	.....	2.89
TOTAL MILES	481.63	256.81	23.84	8.59	9.01	.67	.23	774.78

DEPARTMENT OF PUBLIC WORKS.

RECAPITULATION OF STREETS BY TOWNSHIPS, SHOWING PAVED AND UNIMPROVED STREETS,
AT THE CLOSE OF THE YEAR 1891.

TOWNSHIP.	Number of Miles.	Cedar Block.	Macadam.	Medina Stone.	Granite.	Sheet Asphalt.	Asphalt Block.	Brick.	Burnt Clay.	Total.	Unimproved Streets - Miles.	Repaved in 1891. Miles.
North Division.....	168.98	81.05	1.07	0.49	0.04	8.11	.....	.....	.....	85.76	83.63	2.19
South Division.....	238.78	98.00	9.51	1.70	19.64	1.72	8.59	.....	.....	129.16	99.62	1.81
West Division.	375.72	247.70	20.71	0.89	1.08	4.18	.....	.....	.....	274.06	101.66	1.77
Hyde Park.....	563.74	7.64	139.34	.....	.....	.....	.....	0.67	.....	139.15	424.59	6.27
Lake	370.19	15.85	49.75	.....	.....	.....	.....	.....	0.23	65.83	304.36	.....
Lake View.....	141.53	29.54	42.11	.....	.....	.....	.....	.....	.....	71.65	69.88	0.91
Jefferson.....	200.48	4.46	.....	.....	.....	.....	.....	.....	.....	4.46	256.02	.....
Cicero	89.09	.....	1.62	.....	.....	.....	.....	.....	.....	1.62	87.47	.....
Gano*	135.10	.....	1.70	.....	.....	.....	.....	.....	.....	1.70	133.40	.....
Viaduct approaches.....	2.89	2.39	.....	.....	.....	.....	.....	.....	.....	2.89	.....	.....
Totals	2,384.40	481.63	256.81	2.58	20.76	9.01	8.59	0.67	0.38	774.78	1,559.62	12.45

*Including Washington Heights, West Roseland and Calumet.

Table showing total miles of improved streets with percentage of each class of pavement:

PAVEMENT.	MILES.	PER CENT.
Cedar Block.....	481.63	62.16
Macadam	256.31	33.10
Medina Stone.....	2.58	0.33
Granite	20.76	2.68
Sheet Asphalt.....	9.01	1.17
Asphalt Block.....	3.59	0.46
Brick	0.67	0.08
Burned Clay.....	0.23	0.02
TOTAL	774.78	100.00

The total number of miles of pavement laid each year, from the introduction of street paving in 1855 to the present date, is given in the following review, the number of miles of paved streets in the annexed towns of Hyde Park, Lake and Lake View being added to the total of 1889. From 1835 to 1844 the work on streets consisted of grading only. From 1844 to 1855 improvements were made by planking.

Year.	Miles.	Year.	Miles.	Year.	Miles.	Year.	Miles.
1855	1.72	1865	2.03	1875	11.49	1885	38.06
1856	.26	1866	8.87	1876	10.50	1886	43.66
1857	2.62	1867	11.37	1877	12.29	1887	36.75
1858	7.20	1868	5.46	1878	11.01	1888	54.33
1859	5.70	1869	18.32	1879	6.83	1889	254.22
1860	...	1870	19.96	1880	16.84	1890	99.72
1861	.69	1871	25.63	1881	24.52	1891	117.59
1862	2.57	1872	1.82	1882	24.95	....	.....
1863	2.00	1873	10.19	1883	22.49	....	.....
1864	2.40	1874	9.07	1884	34.52	....	.....
						TOTAL....	957.65

Of this amount 182.87 miles have been repaved during the same period, which reduces the actual amount of paved streets within the corporate limits on December 31, 1891, to 774.78 miles, to which may be added 1,559.62 miles of unimproved streets, making a total of 2,334.40 miles of streets in Chicago at this date; less 2.39 miles of viaduct approaches, making a grand total of 2,332.01 miles.

REPAVING.

The amount of repaving done by the division foremen in repairing improved streets; the replacing of pavement where openings were made by gas companies, water, sewerage, fire alarm, and telegraph departments, bureau of light, etc., and on account of street permits and general repairs :

FOR WHAT PURPOSE.	NORTH DIV.	SOUTH DIV.	WEST DIV.	TOTAL.
	Square Yds.	Square Yds.	Square Yds.	Square Yds.
General Repairs.....	28,684	26,700	53,493	108,877
Gas Companies.....	54	185	156	395
Water Department.....	1,869	4,848	3,156	9,873
Sewer Department.....	216	81	1,246	1,543
City Engineer's Department.....	177	28	49	254
Bureau of Light.....	.....	16	.....	16
Street Permits.....	8,814	2,480	3,426	14,720
TOTALS.....	34,814	34,888	61,526	131,228
Amount of repaving done by contrac- } tors for street repairs for the city ... }	1,378	9,287	15,783	26,448
GRAND TOTAL.....	35,687	43,625	77,309	156,621

Total number of square yards.....156,621

The above does not include any repaving done by contractors for Gas Companies, Bureau of Light, etc.

LUMBER.

The following table shows in detail the amount of lumber used by the division foremen in the construction and repairs of aprons, culverts, crossings, etc., and also for sidewalk intersections and general repairs:

FOR WHAT USED.	NORTH DIVISION.			SOUTH DIVISION.			WEST DIVISION.		
	Lumber.			Lumber.			Lumber.		
	No.	No. Feet Pine.	No. Feet Oak.	No.	No. Feet Pine.	No. Feet Oak.	No.	No. Feet Pine.	No. Feet Oak.
<i>Street—</i>									
Aprons.....	885	119,767	.....	1,089	154,764	.....	852	118,299	.....
Crossings.....	1,065	151,738	.....	1,674	312,948	.....	747	175,558	.....
Culverts.....	755	238,355	.....	946	235,082	.....	321	202,710	.....
Drain boxes.....	85	18,508	.....	50	12,314	.....	152	37,980	.....
Steps and railings.....	136	8,652	.....	185	11,996	.....	780	32,459	.....
Sidewalk intersections..	670	140,014	.....	389	76,795	.....	1,260	291,937	.....
Sidewalk, general repairs....		344,581	.....		604,502	.....		747,698	.....
TOTALS.....	3,596	1,021,615	.....	4,333	1,408,401	.....	4,112	1,606,641	.....

RECAPITULATION.

North Division.....1,021,615 feet of lumber.
 South Division.....1,408,401 feet of lumber.
 West Division1,606,641 feet of lumber.

Grand Total..... 4,036,657 feet of lumber.

UNIMPROVED STREETS.

In the work of grading and ditching, the money at the disposal of this Bureau, for that purpose, has been judiciously expended in keeping unimproved streets in good, passable condition. The total length of streets graded and ditched by the division foremen amounts in the aggregate to about eight hundred and forty-six (846) miles.

The work of ditching new streets, and keeping old ditches free from stagnant waters in the unsewered territory of the city, require the expenditure of large sums of money, which ought to be provided for either by an appropriation or by special assessment.

Considerable money has been expended upon the drains in the southeastern section of the city in the effort to give the residents in that territory temporary relief.

The drainage problem at Grand Crossing and vicinity might readily be solved by the erection of a steam pump at Ninety-fifth street and Stony Island avenue, as the constant excavations made in the drainage ditch makes the bed of the same lower than Lake Calumet. Whenever the wind is from the east, the water, under existing conditions, naturally flows back into the ditch and floods the country as far as Eighty-seventh street. An appropriation by the City Council of \$15,000 for the purpose indicated would give desired and permanent relief.

IMPROVED STREETS.

STREET SWEEPING AND CLEANING.

The cleaning of the improved streets of the city during the past year has been done partly by the Department and partly by contract. During the first three and the last two months of the year the streets, owing to the changeable condition of the weather, are such that it is impossible to determine what would be a fair price to pay per mile for such work, and consequently it falls to the lot of the Department to care for them during these months. From January 1st to April 10th and from November 16th to December 31st of 1891 all the street cleaning was done by the Department employing men, carts and teams, to remove snow, slush, etc., and keep the principal street intersections of the city clean. When the weather permitted, and the streets were in a condition to admit of it, those in the First ward were swept and cleaned between 9 P. M. and 7 A. M., four-horse sweeping-machines being employed and paid at the rate of \$4.49 per mile.

The following table will show the number of miles cleaned and the cost of removing snow, slush, etc., from intersections and streets during the aforementioned months in the First ward, and the streets immediately surrounding the First ward:

MONTHS.	IMPROVED STREETS.		INTERSECTIONS.	TOTAL COST.
	Miles.	Cost.	Cost.	
January.....	173.57	\$ 5,747 05	\$ 969 00	\$ 6,716 05
February.....	361.19	10,505 80	1,225 00	11,730 80
March.....	519.00	16,436 00	.....	16,436 00
April.....	155.92	5,849 66	.....	5,849 66
November.....	37.72	1,106 13	619 50	1,725 63
December.....	60.01	2,417 27	3,418 75	5,836 02
Totals	1,307.41	\$42,061 91	\$6,232 25	\$48,294 16

In addition to the foregoing, the district foremen of the Department cleaned the principal streets and intersections of streets in their respective districts, the number of miles so cleaned being 485.57, at a cost of \$14,688.49.

From April 10 to November 16 all street cleaning, with the exception of macadamized roadways, was done by contract.

Prior to this year the streets of the First ward were cleaned by the Department during the entire year; but owing to the loss of the dump on the lake front grounds by injunction, in November, of 1890, it was deemed advisable to include it in the contract with the other sections of the city, and on April 8 the contract was awarded to J. F. Walsh, at \$27.50 per lineal mile. Work commenced on April 10 and closed November 16. Between those dates 1,750.21 miles were cleaned in the First ward, at a cost of \$48,130.80; and outside of the First ward 3,616.81 miles were cleaned, at a cost of \$99,462.25; making a total of 5,367.02 miles cleaned under contract, at a cost of \$147,593.07. As the cleaning of the First ward was done at night, a day corps of men and carts was employed to remove the sweepings of stores and sidewalks, which was done after the night work was completed, and on June 15 the same was established and maintained up to the expiration of the contract, at a cost to the Department of \$1,598.67.

The following tables show the number of miles cleaned by contractor under each class per month, and the cost of the same.

CLASS A (FIRST DISTRICT).

Statement of work done by contractor in cleaning First ward, from April 10th to November 16th, 1891:

MONTHS.	LINEAL FEET	MILES.	COST.
April	1,095,565	207.49	\$ 5,705 98
May.....	1,501,524	284.38	7,820 45
June	1,239,532	234.75	6,455 63
July.....	1,206,300	228.46	6,282 66
August	1,215,022	230.12	6,328 30
September.....	1,207,122	228.62	6,287 06
October.....	1,318,862	249.78	6,868 95
November	457,320	86.61	2,381 77
Totals	9,241,247	1,750.21	\$48,130 80

Total number of loads removed, 42,178. Total cubic yards, 63,267.

STATEMENT OF WORK DONE BY CONTRACTOR IN CLEANING STREETS OUTSIDE THE FIRST WARD.

1891.	CLASS B.			CLASS C.			CLASS D.			CLASS E.			CLASS F. (ALLEYS.)			TOTALS.		
	Cleaned twice each Week.			Cleaned once each Week.			Cleaned twice each Month.			Cleaned once each Month.			Cleaned once each Mo.					
	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.	Lineal Feet.	Miles.	Cost.
April.....	158,890	30.09	\$ 827 48	388,095	73.50	\$2,021 25	323,685	61.30	\$1,685 75	707,349	133.97	\$3,684 17	15,521	2.95	\$ 81 12	1,593,540	301.81	\$8,299 77
May.....	624,349	118.24	3,251 60	1,119,068	211.93	5,025 07	759,697	143.88	3,956 70	1,219,287	229.79	6,319 23	87,976	16.68	458 70	3,894,377	720.52	19,814 30
June.....	415,643	78.72	2,164 80	842,847	159.63	4,389 82	505,505	95.74	2,632 85	1,193,218	225.99	6,214 73	94,580	17.92	492 80	3,051,793	578.00	15,895 00
July.....	330,819	62.66	1,723 15	865,775	163.97	4,509 17	495,321	93.82	2,580 04	818,047	154.93	4,290 58	72,997	13.82	380 05	2,582,929	489.20	13,452 99
August.....	286,750	54.31	1,493 52	743,777	140.86	3,873 66	476,537	90.25	2,431 88	800,114	151.54	4,167 94	4,116	.78	21 45	2,311,296	437.74	12,037 85
September.....	377,721	71.54	1,967 35	761,729	144.26	3,967 15	463,935	87.87	2,416 43	770,315	145.89	4,011 97	27,504	5.21	143 27	2,401,204	454.77	12,508 17
October.....	301,656	57.14	1,571 35	765,979	145.07	3,989 42	484,657	91.79	2,524 23	872,144	165.18	4,542 44	.....	.....	.....	2,424,436	459.18	12,627 44
November.....	117,293	22.21	610 78	304,426	57.65	1,355 38	184,812	35.00	962 50	320,638	60.73	1,470 07	.....	.....	.....	927,139	175.59	4,828 73
TOTALS.....	2,613,091	494.91	\$13,610 03	5,791,096	1096.87	\$29,393 92	3,694,149	699.65	\$19,240 38	6,695,112	1,293.02	\$34,870 53	302,693	57.39	\$1577 39	19,096,716	3616.81	\$99,462 25

Average number of miles cleaned each month..... 452.10 Average cost for each month.....\$12,432 78

Total number of loads removed..... 97,389 Total number of cubic yards..... 146,084

RECAPITULATION OF STREET CLEANING FOR 1891.

STREET CLEANING.	Total Number of Miles.	Average Number of Miles per Month.	Total Cost.	Average Cost per Lineal Mile.
Under contract, Classes A, B, C, D, E and F, as per schedule.....	5,367.52	670.94	\$147,593.07	\$27.50
By the Department, Class A, cleaning 1,307.41 miles and removing snow, slush, etc., and keeping intersections clean, from January 1st to April 10th, and from November 15th to December 31st, as per schedule.....	1,307.41	163.42	48,294.16	.....
By the district foremen of the Department, cleaning streets and removing snow, slush, etc., in their respective districts from January 1st to April 10th, and from November 15th to December 31st.....	485.57	30.25	14,688.49	.....
By the Department, maintaining day gang in the First ward, from June 15th to November 15th.....	.....	.....	1,598.67	.....
Cost of inspection in connection with contract .....	.....	.....	5,872.76	.....
GRAND TOTALS	7,160.50	.....	\$218,047.15	.....

PERMITS FOR OPENING STREETS.

Two thousand and fifty-nine (2,059) permits were issued to sundry persons to open improved streets. A cash deposit covering cost of replacing pavements, etc., to their original condition, was made on each permit.

Eight thousand, seven hundred and sixty-six (8,766) openings were made on improved streets by gas companies and sundry other corporations under general deposit, the work of replacing the pavements being done by contractors, subject to inspection and acceptance of the Department.

Total number of openings ten thousand, eight hundred and twenty-five (10,825).

FOR OPENING STREETS FOR THE CORRESPONDING MONTHS OF 1890-1891.

MONTH.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.	MONTH.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.
January.....	53	90	August.....	184	206
February....	73	83	September....	196	193
March.....	123	106	October.....	201	239
April.....	142	218	November.....	165	175
May.....	140	175	December.....	122	129
June.....	187	225	TOTALS.....	1,787	2,059
July.....	201	225			
Average number of permits issued each month.....			—1890.—	—1891.—	
Number of permits issued for opening of streets on which deposits			149	172	
were made (not including openings by gas companies and other					
corporations on general deposit).....			1,787	2,059	
Number of permits issued for opening unimproved streets by corpo-					
rations.....			8,905	8,766	
Total.....			10,692	10,825	
Amount of cash deposits made.....			\$ 36,353 00	\$42,268 00	
Amount retained for cost of repaving and inspection.....			9,459 82	12,037 75	
Amount rebated to depositors.....			20,044 18	23,010 65	
Amount retained on permits not settled.....			7,060 00	8,202 05	
Average amount of cash deposits.....			20 35	20 52	
Average amount retained for costs.....			5 29	5 85	

PERMITS FOR USE OF STREETS.

Twenty-one hundred and sixty (2,160) permits were issued to sundry parties to occupy streets for the purpose of depositing materials thereon during the construction of buildings.

The number of permits issued monthly, the amount of cash deposits and revenue received, is given in the following comparative statement:

FOR THE USE OF STREETS FOR THE CORRESPONDING MONTHS OF 1890-1891.

MONTHS.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.	MONTHS.	Number of Permits Issued in 1890.	Number of Permits Issued in 1891.
January.....	91	111	August.....	175	174
February.....	174	177	September....	190	183
March.....	279	205	October.....	214	203
April.....	208	216	November.....	149	119
May.....	238	216	December.....	92	104
June.....	231	229	TOTALS.....	2,234	2,160
July.....	193	223			

STREET DEPARTMENT.

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	—1890.—	—1891.—
Average number of permits issued each month.....	186	180
Amount of cash deposits made.....	\$18,465 00	\$14,255 00
Amount retained for use of streets as per Section 1,104 Municipal Code.	5,616 00	6,594 00
Amount rebated to depositors.....	2,753 00	3,796 00
Amount retained on permits not settled.....	5,852 00	3,865 00
Average amount of cash deposits.....	6 02	6 60
Average amount retained for use of streets.....	2 15	3 05
Total number of permits issued.....	2,284	2,160

HOUSE MOVING.

Fifteen hundred and seven (1,507) permits to move buildings were granted, of which 1,377 were for frame buildings; one hundred and forty-eight (148) for brick, and three (3) iron cable reels—the total frontage of which is 31,390 feet.

Of this number 322 were in the North Division; 643 in the South Division, and 563 in the West Division. 839 were one-story, 650 were two stories; 33 were three stories, and 3 were four stories high.

Total cash receipts, \$4,407.00.

The accompanying table shows the number and character of the buildings moved each month; the frontage occupied by the buildings moved, and the monthly receipts from this service.

HOUSE MOVING.

MONTHS, 1891.	Number Permits.	MATERIAL.			STORIES HIGH.				DIVISION.			FRONTAGE. Lineal feet.	FEES.							Cash Receipts.
		Frame.	Brick.	Iron.	One.	Two.	Three.	Four.	West.	South.	North.		\$1.00.	\$2.00.	\$4.00.	\$6.00.	\$7.00.	\$7.50.	\$10.00.	
January.....	69	47	23	...	54	15	1	....	26	30	14	1,423	43	1	...	25	...	...	...	\$ 170 00
February.....	145	134	12	....	75	65	6	....	60	60	26	3,027	95	1	...	49	...	...	...	842 00
March.....	138	122	16	....	77	57	3	1	50	53	35	3,067	77	...	...	61	...	...	...	382 00
April.....	170	165	9	....	94	79	1	....	63	76	35	3,552	90	2	...	76	...	...	2	494 00
May.....	189	180	9	1	100	81	8	....	60	91	39	3,898	85	1	...	103	...	...	...	602 00
June.....	153	147	8	1	73	75	7	....	53	74	29	3,192	69	1	1	81	...	...	...	480 00
July.....	136	125	12	....	71	61	3	2	47	53	37	2,794	67	...	...	68	...	...	1	417 00
August.....	139	122	17	....	82	56	1	....	54	54	31	2,889	79	...	...	60	...	...	...	379 00
September....	134	119	17	....	69	65	2	....	54	60	22	2,797	80	1	...	52	...	...	1	382 00
October.....	105	99	12	....	74	36	1	....	42	49	20	2,137	63	...	...	21	1	20	...	325 00
November....	53	38	5	....	33	20	....	....	21	13	19	1,100	31	...	...	4	...	18	...	186 00
December....	77	69	8	1	37	40	....	....	33	30	15	1,574	41	1	...	11	...	24	...	278 00
TOTALS.....	1,507	1,377	148	3	839	650	33	3	563	643	322	31,390	820	8	1	611	1	62	4	\$4,407 00

SIDEWALKS.

The number of miles of sidewalks, new, rebuilt and repaired, including wood, stone and concrete, is shown in the following table:

DIVISION.	MATERIAL.			Total Miles.	Sidewalks Repaired.	Grand Total Miles.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.			
North.....	50.17	12.01	24.65	86.83	29.14	115.97
South....	201.11	15.98	86.09	293.18	75.11	368.29
West.....	240.16	12.09	11.71	263.96	141.17	405.13
TOTALS.....	491.44	40.08	72.45	608.97	245.42	854.39

Of the above, 59.60 miles of plank was done under special assessment.

DEPARTMENT OF PUBLIC WORKS.

THE TOTAL NUMBER OF MILES OF SIDEWALKS UNDER THE CONTROL OF THE CITY AND THE SOUTH, WEST AND LINCOLN PARK COMMISSIONERS AT THE CLOSE OF THE YEAR, IS GIVEN IN THE FOLLOWING SUMMARY:

UNDER CONTROL OF	MATERIAL.			TOTAL MILES.	INCREASE OVER THE YEAR 1900.			TOTAL MILES.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.		Wood, Miles.	Stone, Miles.	Concrete, Miles.	
City	2,781.49	208.91	148.29	3,068.69	491.44	40.08	72.45	603.97
South Park Commissioners .....	.....	15.80	11.79	27.09	.....	8.00	10.85	18.85
West Park Commissioners .....	.....	11.05	8.89	14.93	.....	.....	2.99	2.99
Lincoln Park Commissioners .....	.....	2.17	8.22	5.89	.....	.....	1.17	1.17
Totals	2,781.49	232.43	167.19	3,181.10	491.44	48.08	86.96	621.48
Wood Sidewalk replaced by stone and concrete .....	.....	.....	.....	82.74	.....	.....	.....	82.74
Total miles in city .....	.....	.....	.....	3,168.84	Total increase			654.22

STREET LAMPS.

CHICAGO, December 31, 1891.

MR. J. H. BURKE,

Superintendent of Streets.

DEAR SIR:—I herewith present the following statement showing the work done during the year 1891 by the City Lamp Department; also showing the cost of repairs done on lamp posts and service pipes by the different gas companies acting under orders from this Department:

GAS LAMPS PUT UP.

New gas lamps put on posts for Special Assessment Department during the year 1891, and for which payment will be made to the Gas Fund.....	1,714
New gas lamps put on posts for repairs to replace worn out gas lamps.....	1,179
Repaired gas lamps put on posts during the year 1891.....	3,573

GASOLINE LAMPS PUT UP.

New gasoline lamps put on posts and gasoline posts erected during 1891 for the Special Assessment Department, and for which payment will be made to the Gas Fund..	1,069
New gasoline lamps put on posts for repairs to replace worn out lamps during the year 1891.....	260
Repaired gasoline lamps put on posts during the year 1891.....	2,185

STREET SIGNS (BLUE GLASS, OPAL GLASS AND WOOD) PUT UP.

Number of 3x16 blue glass street signs put in gas and gasoline street corner lamps during the year 1891.....	10,802
Number of 4x18 blue glass street signs put in electric lamps during 1891....	2,048
Number of 4x18 strips of opal glass used as backing for electric signs.....	2,048
Number of wood street signs put on posts in districts where there are no street lamps on corners.....	3,264
Number of 4x4 wood posts erected for wooden street signs to be attached thereto....	1,624
Total cost of new and repaired gas lamps made and put on lamp posts during the year 1891 (including lamps put up on orders from Special Assessment Department, and for which payment will be made to Gas Fund).....	\$19,822 25
Total cost of new and repaired gasoline lamps made and put on lamp posts during the year 1891 (including lamps put up on orders from Special Assessment, and for which payment will be made to Gas Fund)....	10,422 65

Total cost of blue glass street name signs put on gas, gasoline and electric lamps; also of wood posts and wood signs put up on districts in which there are no lamps.	\$ 4,952 66
Total cost of work done by this Department in connection with and incidental to the operation of gasoline lighting, such as burners, valves, atomizers, feed pipes, blow pipes, five-gallon cans, ladders, etc., etc., and the amount of which is figured in the operation of gasoline lighting.	5,478 82
Total amount paid to the different gas companies during 1891 for repairing and straightening gas lamp posts, and for repairing and renewing gas lamp service pipes.	13,258 79
Grand total.	<u>\$53,935 17</u>
Deduct amount due from Special Assessment Department for work done on its orders during 1891, and for which transfer of credit will be made to the Gas Fund.	\$ 8,905 48
Deduct cost of work done for Gasoline Lighting Department during 1891.	5,478 82
	<u>14,384 30</u>
Actual net cost of repairs done during 1891 on gas lamps, gas lamp posts and gas service pipes; also on gasoline lamps and posts, as well as cost of street lamp signs put on gas, gasoline and electric lamps, and wood signs and posts put up in districts where there are no lamps.	<u>\$39,550 87</u>

SUMMARY.

Actual net cost of repairs on gas lamps during 1891.	\$14,680 25
Actual net cost of repairs on gasoline lamps and lamp posts during 1891.	6,659 17
Actual net cost of street name signs of all kinds put up during 1891.	4,952 66
Actual net cost of repairs done by the different gas companies on gas lamp posts and gas service pipes, acting under orders from this Department, during 1891.	13,258 79
Total net cost of work done in City Lamp Shop, and by men there employed in putting up lamps, globes, domes, street name signs, etc., throughout the city, as well as cost of repairs done by the different gas companies during 1891.	<u>\$39,550 87</u>
Add amount due from Special Assessment Department for work done during the year 1891.	8,905 48
Add cost of work done for Gasoline Lighting Department during 1891.	5,478 82
Grand total of money expended through this Department for all purposes and on different accounts during 1891.	<u>\$53,935 17</u>

Gas, gasoline and kerosene lamps, lamp posts and lamp service pipes, repairs on which are taken care of by this Department:

Gas lamps.	27,076
Gasoline lamps.	4,566
Kerosene lamps.	162
Total number.	<u>31,804</u>

Actual net cost of lamp repairs of all kinds done and signs of all kinds put up during 1891.....\$39,550 87
 This shows that the actual average net cost for repairs on lamps, posts and service pipes during 1891, for each lamp and post, was 1 25

Respectfully submitted,

JOHN J. O'CONNELL,

Supt. Street Lamp Repairs.

RAILROAD GATES AND FENCES.

The ordinance of March 26, 1890, providing for the construction of fences, gates, lights, etc., at the streets intersecting the lines of the several railroads operating trains within the city limits, and regulating the speed of the same with a view to better protect the lives and property of citizens against accident, has met with general compliance. Two hundred and thirty-eight gates and 167.97 miles of fences were erected since the above date.

The accompanying table shows the work in detail done by the several railroad companies:

NAME.	FENCES CONSTRUCTED—MILES					TOTAL MILES.	GATES IN OPERATION		TOTAL GATES.
	Wall.	Board.	Picket.	Expanded Metal.	Woven Wire.		Prior to 1891.	During Year.	
Chicago, Rock Island & Pacific		0.05	7.52		1.64	9.21	43	5	48
New York, Chicago & St. Louis.....					4.50	4.50			
Illinois Central.....	4.65	0.20			19.10	23.95	19	5	24
Baltimore & Ohio.....					6.00	6.00	22		22
Chicago & Grand Trunk					3.60	3.60	1	4	5
Western Indiana			1.35		1.75	3.10	26	17	43
Wabash Railway.....					2.14	2.14			
Atchison, Topeka & Santa Fe.....					4.00	4.00	1		1
Chicago & Northern Pacific.....				2.60	8.80	11.40	20		20
Chicago, Burlington & Quincy.....			2.50		5.30	7.80	33	2	35
Chicago & Alton					1.16	1.16	7	19	26
Chicago, Milwaukee & St. Paul.....					13.69	13.69	30	4	34
Pittsburgh, Cincinnati, Chicago & St. Louis.....			3.20	0.86		4.06	52	4	56
Pittsburgh & Fort Wayne Railway.....			10.10	1.		11.10	31	5	36
Chicago & North-Western Railway.....		6.50	11.80	2.50	32.90	53.70	150	12	162
Chicago & Madison Railway								10	10
St. Charles Air Line.....							5		5
Union Stock Yards Company.....							4		4
Lake Shore & Michigan Southern.....	0.02	1.92	6.62			8.56	43	3	46
TOTAL.....	4.67	8.67	43.09	6.96	104.58	167.97	487	90	577

Railroad companies that have electric lights at their crossings:

Lake Shore & Michigan Southern.
Chicago, Rock Island & Pacific.
Illinois Central.
Pittsburgh, Cincinnati, Chicago & St. Louis.
Chicago & Grand Trunk.

Western Indiana.
Pittsburgh & Ft. Wayne.
Chicago & Alton—oil lamps.
Chicago, Burlington & Quincy—oil lamps.

A majority of the railroad companies have shown a disposition to heartily co-operate with this Department in the fulfillment of this much needed work.

STREET RAILWAYS.

During the year the different companies have laid pavement on the portions of the streets occupied by their tracks as follows:

PAVEMENT.

CORPORATIONS.	Granite Block, Square Yards.	Cobble Stone, Square Yards.	Cedar Block, Square Yards.	Ottawa Brick, Square Yards.	Total Sq. Yards.
Chicago City Railway Co.....	50,727	.....	24,417	2,400	77,544
West Chicago Street Railroad Co...	54,666	8,323	11,911	.....	74,900
North Chicago Railroad Co.....	553	2,519	13,866	.....	16,488
TOTALS.....	105,946	10,842	49,694	2,400	168,882

Street railway extensions were made by the different companies as follows:

CHICAGO CITY RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Thirty-ninth....	Wentworth ave..	Halsted.	3,960	Double track, Horse.
TOTAL.....	3,960	$\frac{3}{4}$ mile.

STREET DEPARTMENT.

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WEST CHICAGO STREET RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
West Twelfth.....	Kedzie avenue...	Garfield boul....	7,560	Double track, Horse.
West North avenue..	California avenue.	West Fortieth...	15,840	Double track, Horse.
TOTAL.....	.....	.....	23,400	4 miles.

CHANGES FROM HORSE TO CABLE.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Van Buren.....	Clinton	Halsted.....	8,246	.....
Halsted....	Van Buren.....	O'Neil.....	19,384	.....
Blue Island avenue..	Halsted.....	Western avenue .	30,750	.....
TOTAL.....	.....	.....	58,380	10 miles.

NORTH CHICAGO STREET RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Chicago avenue.....	Larrabee	Milwaukee ave ..	6,792	Double track, Horse.
TOTAL.....	.....	.....	6,792	1.8 Miles.

CALUMET ELECTRIC STREET RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Eighty-ninth.....	The Strand.....	Mackinaw avenue	720	Single track, Electric.
Mackinaw avenue...	Eighty-ninth	Harbor	2,000	Single track, Electric.
Harbor	Mackinaw avenue	Ninety-third.....	980	Single track, Electric.
Ninety-third.....	Harbor	Stony Island ave.	11,330	Single track, Electric.
Stony Island avenue..	Ninety-third.....	Ninety-fifth	1,200	Single track, Electric.
TOTAL.....	.....	.....	16,180	3.06 miles.

CICERO AND PROVISO ELECTRIC STREET RAILWAY COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
West Madison	Fortieth	Fifty-second	15,840	Double track.
West Lake	Forty-eighth	Fifty-second	5,280	Double track.
West Forty-eighth ...	West Madison ...	West Lake	4,800	Double track.
TOTAL			25,420	4.80 miles.

CHICAGO AND SOUTH SIDE RAPID TRANSIT RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Alley	Congress, bt. State and Wabash av.	Twenty-first	8,000	Double track, Elevated.
TOTAL			8,000	1.51 miles.

REPORT OF WORK FINISHED IN 1890 AND 1891 WHICH COMPLETES TO DATE.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Alley	Congress, bt. State and Wabash av.	Thirty-seventh ...	17,455	Double track, Elevated.
TOTAL			17,455	8.3 miles.

WEST LAKE STREET ELEVATED RAILROAD COMPANY.

STREET.	FROM	TO	Lineal Feet.	REMARKS.
Lake	May	Ada	1,160	
TOTAL			1,160	0.22 miles.

NUMBER OF MILES OF HORSE AND CABLE IN SERVICE.

CORPORATIONS.	Cable.	Horse.	Total Miles.
Chicago City Railroad Company.....	84.16	118.96	148.12
North Chicago Street Railroad Company	17.10	64.50	81.60
West Chicago Street Railroad Company.....	17.00	125.89	142.89
Calumet Electric Street Railway Company.....			4.05
Cicero and Proviso Electric Street Railway Company			4.80
Chicago and South Side Rapid Transit Company.....			8.80
West Lake Street Elevated Railroad Company.....			1.05
South Chicago City Railway Company			5.66
Total Miles.....			391.47

Respectfully submitted,

J. H. BURKE,

Superintendent of Streets.

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REPORT
OF THE
Bureau of Special Assessments
CITY OF CHICAGO

BUREAU OF SPECIAL ASSESSMENTS.

CHICAGO, December 31, 1891

HON. J. FRANK ALDRICH,

Commissioner of Public Works.

DEAR SIR:—I submit herewith, in tabular form, a statement of special assessments made in this Department during the past year, with a summary of the estimated cost of the same; also the amount of special assessments made in each year during the past thirty-one years.

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12371	C. F. and Paving.	Lock.	Archer avenue	Fuller	\$ 9,718 53
12372	C. F. and Paving.	Lydia.	Desplaines.	Halsted	4,701 77
12374	C. F. and Paving.	West Chicago avenue.	Leavitt	California avenue.	32,073 70
12388	C. G. and Paving.	Alley.	Noble and C. & N. W. R'y	between Bradley and Sloan.	1,674 20
12389	C. G. and Paving.	Alleys.	Bradley and Blackhawk	Cleaver and Noble.	2,885 83
12390	C. G. and Paving.	Alley.	Block 8.	Fractional Section 3, 39, 14.	1,831 10
12391	C. G. and Paving.	West Twenty-sixth.	Lawndale avenue.	Hamlin avenue.	4,892 35
12407	C. F. and Paving.	Sacramento avenue.	West Van Buren	West Twelfth	34,630 85
12413	C. G. and Paving.	Ogden avenue.	Millard avenue	Crawford avenue	16,739 12
12417	C. G. and Paving.	Alley.	Blocks 5 and 6	Lee's Addition	8,250 45
12433	C. G. and Paving.	Desplaines.	West Harrison	West Polk	3,537 62
12436	C. G. and Paving.	Alley.	Douglas ave. and Thirty-seventh	bet. Indiana ave. and Prairie ave.	4,417 30
12437	C. G. and Paving.	Alley.	Western ave. and Campbell ave.	bet. W. Madison and Warren ave	1,519 20
12438	C. G. and Paving.	Alley.	Prairie ave. and Calumet ave	bet. Twenty-ninth and Ray	1,312 06
12439	C. G. and Paving.	Alleys.	Twenty-fourth to Twenty-fifth.	bet. Indiana ave. and Prairie ave.	2,004 17
12441	C. G. and Paving.	Alley.	Twentieth to Twenty-first	bet. Indiana ave. and Prairie ave.	1,174 05
12445	C. G. and Paving.	Alley.	Block 3	Bickerdike's Addition	1,171 12
12446	C. F. and Paving.	Page	West Kinzie	Ainslie avenue	2,670 83
12447	C. G. and Paving.	Alley.	Thirty-fourth and Douglas ave.	bet. South Park av. & Vernon av.	1,966 04
12448	C. F. and Paving.	Earl.	Shields avenue	Stewart avenue.	1,509 53
12473	C. G. and Paving.	Alley.	Sub-block 2, Block 28.	Section 39, 40, 14.	2,031 07
12474	C. F. and Paving.	Sheridan avenue.	Block 2.	Magee & High's Addition	1,753 81
12476	C. F. and Paving.	Wabansia avenue.	West Twelfth	Filimore.	5,663 57
12477	C. G. and Paving.	Alley.	Robey	Milwaukee avenue.	5,900 37
12494	C. G. and Paving.	Alleys.	North ½ Block 3	Sec. 7, 39, 14	1,979 23
12514	C. G. and Paving.	Alley.	Block 8	Bickerdike's Addition.	1,177 20
12515	C. F. and Paving.	South Dearborn.	North ½ Block 60	Section 7, 39, 14.	1,840 52
12516	C. F. and Paving.	Hoffman avenue.	Egan avenue.	Root	12,922 11
12517	C. F. and Paving.	Butterfield	Fullerton avenue.	Humboldt Park boulevard	10,453 56
12550	C. F. and Paving.	Drake avenue.	Egan avenue.	West Ohio.	13,374 80
12551	Grading and Paving.	Dean.	Paulina.	Brigham	4,848 65
12552	C. G. and Paving.	Alley.	South ½ Block 20	Section 7.	9,335 65
12553	C. F. and Paving.	Leavitt	Armitage avenue	Asylum place.	1,418 60
12554	C. F. and Paving.	Thomas.	Western avenue	Seymour.	14,634 40
12555	C. F. and Paving.	Dickson.	North avenue	Wabansia avenue	6,362 62
					8,281 73

12556	C. F. and Paving.	Haynes court.	Archer avenue	Lyman	13,787 26
12557	C. F. and Paving.	Parnell avenue.	Twenty ninth	Thirty-first.	12,289 25
12558	C. F. and Paving.	Gross avenue.	Loomis.	Forty-seventh.	17,641 37
12559	C. F. and Paving.	Winter.	Forty-seventh.	Garfield boulevard.	43,310 61
12560	Paving.	Julian.	Ashland avenue.	Wood.	6,532 95
12562	C. F. and Paving.	Wabansia avenue.	Milwaukee avenue.	Western avenue	16,555 40
12632	C. F. and Paving.	Johnston avenue.	California avenue.	Humboldt Park boulevard.	18,136 17
12633	C. G. and Paving.	Alley.	Spring to Twenty-ninth	between State and Dearborn.	2,979 83
12637	C. F. and Paving.	Turner avenue.	Douglas Park boulevard.	Ogden avenue.	21,948 43
12640	C. G. and Paving.	Alley.	South ½ Block 45.	Section 7, 39, 14.	1,351 25
12641	C. F. and Paving.	Millard avenue.	West Twenty-sixth	West Twenty-eighth	12,407 32
12642	C. G. and Paving.	Wright.	Sixty-seventh.	Sixty-ninth.	8,791 10
12643	C. F. and Paving.	West Congress.	Albany avenue.	Kedzie avenue.	6,039 40
12644	C. G. and Paving.	Alleys.	West ½ Block 41.	Section 83, 40, 14.	1,748 81
12648	C. G. and Paving.	Alleys.	Block 2 and 20, Smith's Sub. in	Section 18, 39, 14.	2,140 10
12660	C. G. and Paving.	Leavitt.	North avenue.	Wabansia avenue.	6,565 45
12661	C. G. and Paving.	East, North and South Alley.	Block 11.	Section 17, 39, 14	1,478 91
12662	C. G. and Paving.	Alleys.	Block 13.	Elston's Addition.	2,015 60
12663	C. F. and Paving.	Quinn.	Archer avenue.	Thirty-first	22,283 48
12664	Grading and Paving.	Commercial avenue.	Eighty-seventh.	Ninetieth.	11,550 65
12665	C. G. and Paving.	Alley.	Twenty-second to Twenty-third.	between Calumet ave. and South Park ave.	2,091 20
12672	Curbing and Paving.	Prairie avenue.	Twenty-sixth.	Thirty-first.	29,842 36
12710	C. G. and Paving.	Ashland avenue.	Belmont avenue.	Graceland avenue.	407 53
12712	C. G. and Paving.	Forty-third.	State.	Illinois Central R. R.	998 21
12716	C. F. and Paving.	West Twenty-sixth.	Sacramento avenue.	Lawndale avenue.	50,305 15
12730	Grading and Paving.	Twenty-third place.	Wentworth avenue.	Archer avenue.	11,167 75
12732	C. F. and Paving.	West Congress.	Rockwell.	Sacramento avenue.	26,086 07
12733	C. G. and Paving.	Alleys.	West ½ Blocks 93 and 94.	West ½ Section 27, 39, 14.	3,514 60
12734	C. F. and Paving.	Albany avenue.	Ogden avenue.	Douglas Park boulevard.	13,359 72
12735	C. G. and Paving.	Alley.	Twenty-fifth to Twenty-sixth	between Indiana avenue and Prairie avenue.	2,029 80
12731	C. F. and Paving.	Twenty-seventh	Portland avenue.	Stewart avenue.	4,733 23
12742	C. F. and Paving.	Leavitt.	Asylum place.	Fullerton avenue.	21,616 90
12746	C. G. and Paving.	Albany avenue.	Colorado avenue.	West Harrison.	15,648 01
12747	C. G. and Paving.	Alleys.	Block 1.	Bowen's Sub. 3, 38, 14.	1,860 00
12748	C. F. and Paving.	Douglas avenue.	Archer avenue.	Western avenue.	21,229 95
12752	C. F. and Paving.	Swift place.	Wentworth avenue.	Stewart avenue.	8,540 45
12753	C. F. and Paving.	Manitene court.	Milwaukee avenue.	Southern terminus.	3,539 16
12754	C. F. and Paving.	Blanche.	Ashland avenue.	Noble.	7,572 30
12754	C. F. and Paving.	Hoyne avenue.	Asylum place.	Fullerton avenue.	19,404 73
12755	C. G. and Paving.	Forty-fifth.	State.	Grand boulevard.	17,680 11
12756	C. G. and Paving.	Central Park avenue.	West Madison.	West Harrison.	25,693 06
12766	C. G. and Paving.	Alley.	Block 6.	Millard and Decker.	2,016 21

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12767	C. F. and Paving.	Cross.	Lynan	Thirty-first.	\$ 4,469 00
12768	C. G. and Paving.	Kedzie avenue	North avenue	Augusta	39,326 00
12769	C. F. and Paving.	Albany avenue.	West Twelfth	Douglas Park boulevard.	12,085 05
12770	C. F. and Paving.	Clarinda.	Holt	Ashland avenue	4,085 43
12771	C. G. and Paving.	Addison avenue.	North Clark.	Ashland avenue	33,938 54
12775	C. F. and Paving.	Binzo.	Elston avenue.	Lister avenue	2,771 06
12776	C. F. and Paving.	Gloy place	Elston avenue.	Lister avenue	2,555 47
12777	C. F. and Paving.	South Hedwig's avenue.	Asylum place	Pulaski	10,099 90
12778	C. F. and Paving.	Kuebe place.	Asylum avenue.	Lister avenue	2,764 52
12806	C. F. and Paving.	Jane.	Western avenue.	California avenue.	23,111 23
12807	C. F. and Paving.	Forty-fifth	Wentworth avenue	Stewart avenue.	11,811 60
12808	C. F. and Paving.	Robey.	West Eighteenth	Blue Island avenue	39,458 99
12813	C. F. and Paving.	Egan avenue.	Wentworth avenue.	Halsted	46,884 89
12821	C. G. and Paving.	Indiana avenue.	Egan avenue	Forty-third	21,139 55
12826	C. F. and Paving.	Potomac avenue.	Leavitt	Western avenue	2,771 13
12837	C. F. and Paving.	Ashland avenue.	Egan avenue.	Garfield boulevard.	84,977 51
12839	C. F. and Paving.	Moore.	Division.	Elm.	2,038 90
12830	C. F. and Paving.	East 34 feet of West 40 feet of Western av.	Illinois and Michigan canal	Egan avenue.	26,586 70
12831	C. F. and Paving.	Archer avenue.	South branch Chicago river.	Western avenue	7,344 25
12832	C. G. and Paving.	West Randolph.	South branch Chicago river.	Desplains	36,395 85
12841	C. G. and Paving.	Noble avenue.	North Clark	Sheffield avenue.	10,475 68
12844	Grading and Paving.	Fairfield avenue.	West Lake	West Kinzie	6,525 11
12845	C. G. and Paving.	Alley in south $\frac{1}{2}$ Block 43, Sec.	7, 39, 14	Western avenue	1,880 65
12846	C. F. and Paving.	Bremen place.	Robey	Western avenue	29,237 78
12864	C. G. and Paving.	Alleys, Block 11.	C. T. Subd. Sec. 17, 39, 14.	39, 14	2,905 21
12868	C. G. and Paving.	North alley.	Block 17, C. T. Subd. Sec. 17,	Columbia place.	2,098 16
12875	C. F. and Paving.	Fulton.	Hamlin avenue.	39, 14	3,478 44
12876	C. G. and Paving.	East north and south alley in	Block 15, C. T. Subd. Sec. 17,	39, 14	1,058 95
12877	C. G. and Paving.	Alley in south $\frac{1}{2}$ Block 54, C. T.	Subd. Sec. 17.	39, 14	1,811 92
12900	C. F. and Paving.	Churchill.	Robey	Leavitt	11,707 53
12901	C. F. and Paving.	Coblentz.	Robey	Leavitt	14,209 46
12902	C. F. and Paving.	Frankfort.	Robey	Leavitt	14,606 96
12903	C. F. and Paving.	Rhine	Leavitt.	Western avenue	13,217 11
12910	C. G. and Paving.	Alleys	in Block 53.	Carpenter's Addition.	2,280 21
12911	C. G. and Paving.	North and south alley.	Block 14, C. T. Sub., Sec. 17,	39, 14	1,121 26
12912	C. G. and Paving.	Alley.	North $\frac{1}{2}$ Block 47, C. T. Subd.	Section 17, 39, 14.	1,954 03

12913	C. G. and Paving.	Alley	Desplaines.	Halsted, etc.	2,391 08
12930	C. F. and Paving.	Lincoln avenue.	Belmont avenue	Addison avenue	623 93
12964	C. F. and Paving.	Fifth avenue.	Douglas avenue	Thirty-seventh	9,963 92
13015	C. G. and Paving.	Alley	Paulina and Lull place.	Milwaukee ave. and Moorman	877 85
13026	C. G. and Paving.	West Congress.	Ashtland avenue	Ogden avenue.	20,604 77
13032	C. G. and Paving.	Wagram.	Halsted	Racine avenue.	16,162 62
13033	C. F. and Paving.	Fillmore.	Western avenue	Campbell avenue	5,087 26
13035	C. G. and Paving.	Alley	Thirty-first to Thirty-second	Indiana ave. to Prairie ave.	1,646 80
13036	C. F. and Paving.	Penn.	Division	Vedder	2,851 00
13037	C. G. and Paving.	Alley in west 1/2 Block 43.	U. T. Sub. of N. 1/2 and N. 1/2, S. E. 1/4.	and E. 1/2 S. W. 1/4, Section 33, 40, 14.	2,338 75
13039	C. G. and Paving.	Alley	Sub-block 8, Centre 5.	Sheffield's Addition.	2,735 03
13040	C. G. and Paving.	Alley	Wisconsin and Centre, bet. Cleve	land avenue and Hudson avenue.	2,380 86
13157	C. F. and Paving.	Washtenaw avenue.	West Lake	West Kinzie.	8,158 90
13158	C. F. and Paving.	Maud avenue.	Racine avenue.	Sheffield avenue.	16,578 97
13159	C. G. and Paving.	Alleys in subdivision	Block 29.	C. T. Sub., W. 1/2 Section 5.	1,371 00
13160	C. G. and Paving.	Alley	Thirty fourth and Douglas ave.	bet. Michigan avenue and Indiana avenue.	2,189 01
13169	C. F. and Paving.	Zion place.	Throop	Loomis.	5,088 47
13170	C. F. and Paving.	Wright	Stewart avenue.	Canal.	3,468 91
13172	C. F. and Paving.	Alice place	Western avenue	Powell avenue.	3,695 50
13196	C. F. and Paving.	Byron	California avenue.	Humboldt boulevard	11,058 15
13197	C. G. and Paving.	Alley	Block 3, Bauman and Hoffman's	Addition	2,352 16
13198	C. G. and Paving.	Alley	Twenty-third and Twenty fourth	bet. Wabash avenue and Michigan avenue.	2,041 30
13199	C. G. and Paving.	Alley	Block 2.	D. S. Lee's addition.	3,073 05
13204	C. G. and Paving.	North Centre.	West Kinzie	Austin avenue.	2,999 21
13205	C. G. and Paving.	West Washington.	Canal	Halsted.	16,574 42
13208	C. F. and Paving.	Armitage avenue.	California avenue.	Kedzie avenue.	21,490 66
13212	C. G. and Paving.	Alley	Block 19.	Duncan's addition.	1,442 77
13237	C. F. and Paving.	Wallace.	Egan avenue.	Fortieth	6,748 91
13244	C. F. and Paving.	Melrose.	Halsted	Evanston avenue.	7,825 90
13249	C. F. and Paving.	Cicero court.	West Van Buren	West Congress.	2,090 84
13261	C. G. and Paving.	Albany avenue	Douglas boulevard.	West Twelfth.	21,539 78
13265	C. F. and Paving.	Jane.	Hoyne avenue.	Leavitt.	6,824 07
13313	C. G. and Paving.	Alley	West 1/2 Block 53.	C. T. Sub., Section 33-40-14.	2,867 45
13314	C. G. and Paving.	Alley	East 1/2 Block 43.	C. T. Sub., Section 33-40-14.	2,352 11
13315	C. F. and Paving.	Robey.	West Twelfth	West Thirteenth.	5,439 31
13319	C. G. and Paving.	Cornelia	Ashtland avenue	Wood	7,571 93
13332	C. G. and Paving.	Alleys.	Block 9, C. T. Sub. W. 1/2 and	W. 1/2 N. E. 1/4 Sec. 17, 39, 14.	2,582 52
13334	C. F. and Paving.	Edgar	North avenue	West Clybourn place.	23,744 07
13335	C. F. and Paving.	Commercial.	North avenue	Armitage avenue.	31,333 43
13337	C. F. and Paving.	Cooper	Clybourn avenue	Fullerton avenue.	4,219 47
13341	C. G. and Paving.	Alleys.	Block 16.	Ogden's addition.	1,121 90
13312	C. F. and Paving.	Courtland.	Robey	Leavitt.	11,972 50

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13345	C. G. and Paving.	Alley.	North Centre ave. and Elizabeth	West Erie and West Ohio.	\$ 2,036 04
13346	C. G. and Paving.	Alleys.	Sub-block 1, Taylor's Sub. Block	I, A. D., etc.	2,042 53
13347	C. G. and Paving.	Alley.	Sub-block 3, Taylor's Sub. Block	I, A. D., etc.	2,052 07
13348	C. G. and Paving.	Alleys.	Sub-block 4, Taylor's Sub. Block	I, A. D., etc.	2,044 10
13349	C. G. and Paving.	Alleys.	Sub-block 5, Taylor's Sub. Block	I, A. D., etc.	1,947 04
13350	C. G. and Paving.	Alleys.	Ada and Noble.	West Erie and West Ohio.	1,481 32
13353	C. G. and Paving.	Alley.	Block 18.	Kinzie's addition.	1,130 48
13354	C. G. and Paving.	East, north and south alley	Wilnot ave. and Armitage ave.	west of Leavitt.	2,613 19
13356	C. G. and Paving.	Alley.	Eighteenth to Nineteenth.	bet. Center avenue and Allport	2,908 84
13357	C. F. and Paving.	West Seventeenth.	Fisk.	Center avenue.	7,523 74
13362	C. G. and Paving.	Lewis	Wrightwood avenue.	Diversey avenue.	10,371 24
13363	C. G. and Paving.	Alleys.	Block 1.	Uhlich & Muhle's Addition.	2,616 74
13364	C. G. and Paving.	Alley.	Burton place and North avenue.	Dearborn ave. and North State.	2,083 40
13366	C. G. and Paving.	Gehrke avenue	North Clark.	Sheffield avenue.	7,624 60
13367	C. G. and Paving.	Alley.	Sub-block 2, Block 40.	C. T. Sub., W. $\frac{1}{2}$, etc., Sec. 17.	1,485 92
13368	Grading and Paving.	Pearson	West of Milwaukee avenue, bet.	North Market	2,130 00
13369	C. F. and Paving.	First alley.	North Franklin	Armitage ave. and Cornelia	5,979 80
13370	C. F. and Paving.	Church place.	Archer avenue	Fuller	5,845 16
13371	C. G. and Paving.	Alleys.	Block 30, W. $\frac{1}{2}$ and W. $\frac{1}{2}$ N. E.	$\frac{1}{4}$, Section 17	3,195 21
13383	C. G. and Paving.	Warren avenue.	Garfield Park	Crawford avenue.	4,623 10
13384	Grading and Paving.	Sheldon.	Washington boulevard	West Randolph.	2,326 79
13387	C. G. and Paving.	Hobbie.	Sedgwick	Larrabee.	7,468 74
13389	C. G. and Paving.	West Ohio.	Robey.	Western avenue	20,111 91
13390	C. F. and Paving.	Wabansia avenue.	Elston avenue	Ashland avenue	9,542 35
13391	C. F. and Paving.	Desplaines.	West Monroe.	West Adams	2,947 63
13392	C. F. and Paving.	West Sixteenth.	Canal	Halsted	31,673 48
13393	C. F. and Paving.	Alley.	Vincennes avenue to its western terminus.	Next north of Aldine square	1,274 07
13394	C. G. and Paving.	Burling.	Garfield avenue	Webster avenue	4,768 44
13395	C. G. and Paving.	Grove court.	Larrabee	Orchard	4,676 59
13396	C. F. and Paving.	Richmond	West Chicago avenue	West Division.	21,375 77
13398	C. F. and Paving.	Osborne	West Indiana	West Ohio	2,996 47
13400	C. F. and Paving.	West Twenty-first.	Jefferson.	Union	8,649 06
13401	C. F. and Paving.	Mather	Clinton	Jefferson	2,281 54
13402	C. F. and Paving.	Sebor.	Clinton	Jefferson	2,350 94
13403	Grading and Paving.	West Harrison.	Clinton.	Halsted	5,632 20
13404	C. G. and Paving.	Sedgwick.	Erie.	Chicago avenue	9,002 53

13405	C. G. and Paving.	Lincoln avenue.	Sheffield avenue.	Belmont avenue.	28,612 65
13406	C. F. and Paving.	Norwood avenue.	Kedzie avenue.	Homan avenue.	10,970 92
13407	C. F. and Paving.	Hamlin avenue.	West Chicago avenue.	North avenue.	44,389 83
13408	C. F. and Paving.	Jefferson.	West Twelfth.	West Fifteenth.	8,880 41
13409	C. F. and Paving.	Pleasant.	Division.	Vedder.	2,721 17
13410	C. F. and Paving.	Ontario.	Eighty-ninth.	South Chicago avenue.	50,705 08
13411	C. F. and Paving.	West Kinzie.	Jefferson.	May.	13,921 58
13415	C. G. and Paving.	The alleys.	Blocks 9 and 10.	Brand's Addition.	3,038 43
13419	C. G. and Paving.	Alley.	Twenty-seventh to Thirty-third.	Westworth avenue and South La Salle.	11,846 32
13423	C. F. and Paving.	Jane.	Ashland avenue.	Newton.	10,920 00
13424	C. F. and Paving.	Kedzie avenue.	West Van Buren.	West Twelfth.	35,874 34
13425	C. F. and Paving.	Powell.	Milwaukee avenue.	Fullerton avenue.	20,766 89
13429	C. F. and Paving.	Western avenue.	Fullerton avenue.	Belmont avenue.	46,590 67
13433	C. F. and Paving.	Western avenue.	West Chicago avenue.	North avenue.	52,280 84
13436	C. G. and Paving.	Wellington.	Sheffield avenue.	Southport avenue.	24,748 04
13441	C. F. and Paving.	Stearns.	Halsted.	Main.	17,463 55
13446	C. G. and Paving.	Newport avenue.	Sheffield avenue.	Halsted.	8,324 86
13449	C. F. and Paving.	Fairfield avenue.	Hirsch.	North avenue.	8,829 09
13450	C. F. and Paving.	Hoyle avenue.	West Eighteenth.	West Twenty-second.	18,750 34
13454	C. F. and Paving.	Myrtle.	Ashland avenue.	West Taylor.	3,427 66
13462	C. G. and Paving.	Alley.	Thirty-second, 150 ft. north of Thirty-third.	Prairie avenue and Forrest avenue.	1,270 83
13483	C. G. and Paving.	Alley.	Ashland avenue and Paulina.	West Superior and West Chicago avenue.	2,472 87
13531	C. G. and Paving.	Alley.	East $\frac{1}{2}$ Block 51, C. T. Sub.	Section 33, 40, 14.	2,676 20
13533	C. G. and Paving.	North and south alley.	Block 3.	Newberry's addition.	669 36
13536	C. G. and Paving.	Alley.	East $\frac{1}{2}$ Block 42, C. T. Sub.	Section 33, 40, 14.	2,997 34
13537	C. G. and Paving.	Alleys.	East $\frac{1}{2}$ Block 31, C. T. Sub.	Section 33, 40, 14.	1,213 88
13579	C. G. and Paving.	Alley.	Oakenwald avenue, 955 ft. north.	Oakenwald avenue and Lake ave.	2,439 74
13580	C. G. and Paving.	East and west alley.	Halsted and Union.	Maxwell and Liberty.	1,021 74
13581	C. G. and Paving.	Alleys.	Block 12.	Ashland 2nd Addition.	1,794 23
13582	C. G. and Paving.	Alley.	Lake and Oakenwald avenue.	Forty-second and Orchard.	3,753 82
13583	C. G. and Paving.	Kemper place.	Orchard.	Larrabee.	3,701 15
13584	C. G. and Paving.	Flournoy.	California avenue.	Francisco.	2,724 39
13586	C. F. and Paving.	Alley.	Block 11, McReynolds' Sub.	Section 6, 39, 14.	2,605 80
13605	C. G. and Paving.	Alley.	in North $\frac{1}{2}$ Block 68, C. T. Sub.	Section 21, 39, 14.	955 14
13632	C. F. and Paving.	Ashland avenue.	Fifty fifth.	Fifty ninth.	22,894 54
13638	C. F. and Paving.	Berlin.	Hoyle avenue.	Western avenue.	21,866 45
13644	C. G. and Paving.	Burling.	Wrightwood avenue.	Dewey court.	6,007 02
13646	C. F. and Paving.	Douglas Park place.	Fairfield avenue.	California avenue.	3,657 31
13697	C. G. and Paving.	Seminary avenue.	Centre.	Maud avenue.	5,084 17
13698	C. G. and Paving.	Alleys.	North $\frac{1}{2}$ Blocks 61, 62, 63 and 64, Section 7, 39, 14.	64, Section 7, 39, 14.	7,620 10
13699	C. G. and Paving.	Alley.	Holt to C. & N-W. R'y, next	north of North avenue.	1,220 30
13700	C. G. and Paving.	Alleys.	Block 11.	Brand's addition.	1,369 86

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13701	C. G. and Paving.	Alley.	West ½ Block 3.	C. T. Sub., Sec. 17, 99, 14	\$1,354 93
13702	C. G. and Paving.	North and South Alley.	Block 5.	Owsley's Sub., Section 18, 39, 14	1,025 09
13703	C. G. and Paving.	Alley.	North ½ Block 12	C. T. Sub., Section 7, 39, 14.	2,234 14
13704	C. G. and Paving.	North and South Alley.	Block 1.	Asland Addition.	746 74
13705	C. G. and Paving.	First Alley north of Washington boulevard.	Elizabeth.	Willard place.	1,437 17
13706	C. G. and Paving.	Armour avenue.	Twenty-fifth.	Twenty-sixth.	5,896 85
13717	C. F. and Paving.	Fifty-third.	Cottage Grove avenue.	Drexel avenue.	4,445 03
13718	C. F. and Paving.	Owasco.	Washienaw avenue.	California avenue.	5,561 35
13719	C. G. and Paving.	The alley.	Thirty-third and Douglas avenue.	Calumet avenue and South Park avenue.	4,180 84
13720	C. G. and Paving.	School.	North Clark.	Halsted.	4,432 60
13721	C. G. and Paving.	The alley.	Block 45.	Original town of Chicago.	1,388 81
13722	C. F. and Paving.	Wabansia avenue.	Western avenue.	Basil avenue.	37,632 00
13723	C. F. and Paving.	Harvard	Campbell avenue.	California avenue.	17,014 92
13724	C. F. and Paving.	Otis.	Division.	Vedder.	2,762 05
13725	C. F. and Paving.	Commercial avenue.	South Chicago avenue.	Ninety-sixth.	17,894 15
13726	C. F. and Paving.	Thirty-eighth.	Stewart avenue.	Laurel.	36,839 77
13727	C. F. and Paving.	Edbrooke place.	Western avenue.	Powell avenue.	3,868 80
13728	C. F. and Paving.	Asland avenue.	Egan avenue.	Garfield boulevard.	234 83
13730	C. G. and Paving.	Alley.	in Block 2.	State Bank Sub., Sec. 4, 39, 14.	2,471 70
13735	C. G. and Paving.	Alleys.	Block 1.	Bowen's Sub., Sec. 8, 88, 14.	214 98
13739	C. G. and Paving.	Elizabeth.	West Madison.	West Randolph.	9,732 89
13740	C. G. and Paving.	Racine avenue.	Belmont avenue.	Roscoe.	8,524 31
13741	C. F. and Paving.	Hoyne avenue.	Milwaukee avenue.	Armitage avenue.	19,624 15
13776	C. G. and Paving.	Alley.	West Indiana and West Ohio.	Carpenter and Morgan.	1,066 15
13851	C. G. and Paving.	Central Park avenue.	Central Park boulevard.	West Ohio.	5,737 64
13852	C. G. and Paving.	Berteau avenue.	Asland avenue.	North Clark.	6,522 81
13853	C. F. and Paving.	Rosebud avenue.	Western avenue.	Bloomingtondale road.	8,256 06
13854	C. F. and Paving.	Hickory.	Main.	Cologne.	10,983 51
13855	C. F. and Paving.	Upton.	Milwaukee avenue.	Western avenue.	6,019 87
13856	C. G. and Paving.	Homer.	Robey.	Hoyne avenue.	6,912 72
13857	C. F. and Paving.	Hamlin avenue.	West Twenty-sixth.	West Twenty-seventh.	5,951 62
13858	C. F. and Paving.	Lexington.	Francisco.	California avenue.	5,687 18
13859	C. G. and Paving.	Michigan.	Clark.	Rush.	6,777 48
13860	C. F. and Paving.	Eighteenth place.	Johnson.	Brown.	3,696 77
13862	C. G. and Paving.	Larrabee.	Deming court.	Frederick.	2,776 77
13864	C. F. and Paving.	Garfield avenue.	Racine avenue.	Herndon.	4,604 01

13865	C. F. and Paving.	Lunn court	Western avenue	Eastern terminus	5,737 61
13867	C. F. and Paving.	Purple	Archer avenue	Twentieth	12,953 93
13911	C. F. and Paving.	Star avenue	Robertson avenue	Southern terminus	3,416 34
13912	C. F. and Paving.	Robertson avenue	Illinois Central R. R.	Grace avenue	2,502 00
13914	C. F. and Paving.	Fifty-ninth	State	South Park avenue	17,416 29
13915	C. F. and Paving.	Ontario	North Clark	St. Clair	32,905 71
13916	C. G. and Paving.	West Jackson	Halsted	Canal	20,586 56
13917	C. G. and Paving.	Alley	Block 28	School Section Addition	1,279 27
13933	C. G. and Paving.	Alley	in Block 17	Elston's Addition to Chicago	3,499 07
13936	C. G. and Paving.	Alleys	in Block 20, W. 1/2 and W. 1/2 and	W. 1/2, N. E. 1/4, Sec. 17, 39, 14	3,297 21
13937	C. F. and Paving.	Forrest avenue	Fullerton avenue	Humboldt Park boulevard	10,446 77
13938	C. F. and Paving.	Lester avenue	Asylum place	Robey	14,408 43
13939	C. F. and Paving.	Stephens	West Jackson	West Van Buren	4,547 31
13940	C. F. and Paving.	Sobieski avenue	Asylum place	Fullerton avenue	13,078 45
13941	C. G. and Paving.	Alley	in Sub-block 1, Block 27 in C. T. Sub. 1/2	& N. 1/2 S.E. 1/4, & E. 1/2 S.W. 1/4, Sec. 33, 40, 14	2,155 70
13942	Grading and Paving.	Sheldon	Washington boulevard	West Randolph	350 00
13943	C. G. and Paving.	Alley	in Block 12, C. T. Sub., S. E.	1/4, Section 17, 39, 14	2,973 43
13944	C. G. and Paving.	Harrison	C. R. I. & P. R'y.	South branch Chicago river	3,277 71
13945	C. G. and Paving.	Fifth avenue	Harrison	Park	4,182 50
13948	C. G. and Paving.	North and south alley	Sub-blocks 3 and 6	Block 4, Sheffield's Addition	4,331 80
13979	C. F. and Paving.	Belmont avenue	Western avenue	Milwaukee avenue	65,375 17
13983	C. F. and Paving.	Butler	Twenty-fourth	Thirty-first	26,120 60
13986	C. F. and Paving.	Twenty-seventh	Portland avenue	Stewart avenue	364 84
14006	C. G. and Paving	Alley	South 1/2 Block 36	School section Addition	1,091 80
14007	C. F. and Paving.	Lawndale avenue	West Twenty-second	C., B. & Q. R. R.	1,723 77
14008	C. G. and Paving	Alley	West Van Buren	West Congress	1,083 97
14009	C. G. and Paving	East and west alley	in Blk. 15, C. T. Sub. W. 1/2 Sec. 17, 39, 14 W	Idams & Jackson, bet. Centre av. & Aberdeen	2,493 90
14010	C. G. and Paving	East and west alley	in Block 12, C. T. Sub., W. 1/4	Sec. 17, 39, 14	2,574 98
14011	C. G. and Paving	North, east and west alley	in Blk. 3, Ashland 2d Md., Winchester av. and	Lincoln, between Madison and Monroe	641 51
14051	C. G. and Paving	Alley	in South 1/2 Block 27	C. T. Sub., Section 7, 39, 14	3,208 79
14053	C. G. and Paving	West, north and south alley	Churchill	Armitage ave. east of Leavitt	3,076 63
14185	C. F. and Paving	Spring	State	Wentworth avenue	7,880 59
14199	C. F. and Paving	Fifty-seventh	Wentworth avenue	Halsted	33,503 50
14208	C. F. and Paving	Joseph	Archer avenue	Hickory	7,881 24
14211	C. G. and Paving	Twelfth	Michigan avenue	Indiana avenue	1,603 31
14212	C. F. and Paving	Western avenue	Blue Island avenue	Illinois and Michigan Canal	33,407 75
14213	C. F. and Paving	Wallace	Fortieth	Forty-third	16,405 05
14214	C. G. and Paving	Alley	Thirtieth	Thirty-first	3,853 85
14215	C. F. and Paving	Morgan	in Sub-block 3 and 4 of Block	West Eighteenth	6,224 19
14216	C. G. and Paving	Alley	West Sixteenth	63, C. T. Sub., Section 7, 39, 14	1,988 77
14217	C. F. and Paving	Fisk	West Sixteenth	West Eighteenth	4,501 63
14227	C. G. and Paving	Alley	Prairie ave. and Calumet ave.	between Twenty-ninth and Ray	244 20

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14228	C. F. and Paving.	West Congress	Rockwell	Sacramento avenue	\$ 1,041 06
14234	C. F. and Paving.	Blanche	Ashland avenue	Noble	1,635 09
14235	C. F. and Paving.	California avenue	Milwaukee avenue	Humboldt boulevard	19,312 34
14236	C. G. and Paving.	Forty-fifth	State	Grand boulevard	6,534 41
14238	C. F. and Paving.	Clarinda	Holt	Ashland avenue	645 57
14239	C. G. and Paving.	Addison avenue	North Clark	Ashland avenue	561 44
14241	C. F. and Paving.	Western avenue	Fullerton avenue	Belmont avenue	739 13
14244	C. F. and Paving.	Lowe avenue	Twenty-sixth	Egan avenue	82,572 30
14246	C. F. and Paving.	Calumet avenue	Thirty-seventh	Thirty-eighth	4,989 88
14248	C. F. and Paving.	Lincoln	West Twelfth	West Thirtieth	6,969 91
14250	Grading and Paving.	Fourteenth	Wabash avenue	Michigan avenue	1,818 47
14251	C. F. and Paving.	Brown	Wright	C. & N. W. R'y	2,826 00
14252	C. G. and Paving	Alley	in Sub block 2	Blk 27, C. T. Sub., Sec. 33, 40, 14	2,402 43
14254	C. F. and Paving	Washenaw avenue	West Sixteenth	West Twenty-second	31,271 50
14255	C. F. and Paving	Forty-seventh	Halsted	Paulina	38,158 85
14281	C. G. and Paving	Douglas avenue	Western avenue	California avenue	21,971 98
14282	C. F. and Paving.	Fifty-ninth	Halsted	Centre avenue	24,369 80
14283	C. F. and Paving.	Hoynes avenue	Belmont avenue	Clybourn avenue	17,062 05
14287	C. G. and Paving	Genesee avenue	Colorado avenue	West Harrison	4,830 53
14288	C. G. and Paving	Calumet avenue	Egan avenue	Forty-second	15,868 79
14289	C. G. and Paving	Lincoln avenue	Sulzer	Addison avenue	41,518 73
14298	C. G. and Paving	West Twenty-third	St. Louis avenue	Central Park avenue	8,981 64
14299	C. F. and Paving.	Lill	Western avenue	Station	10,359 75
14330	C. G. and Paving.	The alley	Twenty-third to 147 ft. N. of Twenty-fourth	bet. Michigan avenue and Indiana avenue	1,876 86
14331	C. G. and Paving	The alley	in South $\frac{1}{2}$ Blocks 57 and 58	C. T. Sub., Section 7, 39, 14	3,795 94
14332	C. G. and Paving	The alleys	in Block 10, Ashland 2d Add.	bet. Mann & Jackson & Moore & Lincoln	1,777 05
14333	C. G. and Paving.	The alley	Aberdeen to Centre avenue	bet. Tilden ave. to West Congress	1,807 33
14334	C. G. and Paving	The alley	in South $\frac{1}{2}$ Block 55	C. T. Sub., Section 7, 39, 14	544 39
14335	C. F. and Paving.	Gordon	State	Butterfield	3,323 62
14336	C. F. and Paving.	Gordon	Union avenue	Stewart avenue	13,211 99
14337	C. F. and Paving.	Wrightwood avenue	Southport avenue	C. & E. R. R.	5,670 90
14339	C. G. and Paving	West Forty-second	Ogden avenue	C. B. & Q. R. R.	3,513 38
14341	C. F. and Paving	Paulina	Clybourn avenue	Wrightwood avenue	11,039 61
14405	C. F. and Paving.	Wabansia avenue	Ashland avenue	Robey	10,417 34
14410	C. G. and Paving	Indiana avenue	Egan avenue	Forty-third	936 25
14411	C. G. and Paving	Forty-third	State	Halsted	41,003 47

14419	C. G. and Paving	Clarence avenue	Grace	Nellie avenue	8,776 76
14435	C. G. and Paving	Sixty-sixth court	Stewart avenue	Wright	2,854 55
14436	C. F. and Paving	Johnson	West Sixteenth	West Eighteenth	5,369 51
14438	C. F. and Paving	The alley	Van Buren to Avon place	bet. Robey and Hoyne avenue	429 03
14450	C. G. and Paving	Fiftieth	Cottage Grove avenue	Drexel boulevard	4,093 47
14451	C. F. and Paving	Leavitt	Eighteenth	Blue Island avenue	43,990 98
TOTAL					\$3,470,729 01

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12973	C. G. and Macadam.	Fifty-second.	Lake avenue.	Drexel avenue.	\$36,056 84
12977	G. and Macadamizing.	Cottage Grove avenue.	Sixty-seventh.	Ninety-fifth	32,507 36
12985	C. F. and Macadam.	Cornelia	Halsted.	Lake Michigan.	11,220 06
12989	C. G. and Macadam.	Langley avenue	Forty-second.	Forty-fifth	18,794 13
12402	C. G. and Macadam.	Drexel avenue.	Sixtieth.	Sixty-third	10,197 15
12409	C. G. and Macadam.	Wharton avenue.	Sixtieth.	Sixty-third	10,129 65
12420	C. G. and Macadam.	Addison avenue.	North Clark.	Lake Michigan	20,694 60
12434	C. G. and Macadam.	Langley avenue.	Fortieth.	Forty-second	3,887 57
12443	C. G. and Macadam.	Michigan avenue.	Fifty-fifth.	Sixty-third	64,917 85
12443	F. and Macadamizing.	18 feet in middle of Sixty-ninth.	State.	Vincennes avenue.	903 53
12478	G. and Planking	Alleys.	Block 12.	S. E. 1/4 Sec. 17, 39, 14.	2,494 80
12518	C. G. and Macadam.	Ione place.	Vincennes avenue.	Grand boulevard	4,169 50
12519	C. G. and Macadam.	Ellis avenue	Fifty-fifth.	Fifty-sixth	3,677 50
12561	C. G. and Macadam.	Calumet avenue.	Forty-third.	Forty-seventh	15,055 05
12624	G. and Macadamizing	Forty-seventh.	Western avenue.	Archer avenue.	18,473 61
12628	C. G. and Macadam.	Fifty-fourth place.	Woodlawn avenue.	Drexel avenue.	7,773 05
12638	C. G. and Macadam.	Drexel avenue.	Fifty-fifth.	Fifty-ninth.	27,056 86
12673	Asphalt Paving	West Monroe.	Central Park avenue	Kedzie avenue.	42,408 01
12674	Asphalt Paving	West Adams.	Central Park avenue	Kedzie avenue	44,022 50
12700	Improving (Hyde Park)	Evans avenue.	Forty-sixth.	Forty-seventh	431 75
12721	C. G. and Macadam.	Halsted.	Evanson avenue.	Sulzer	17,894 92
12726	C. F. and Macadam.	Sherman.	Sixty-third.	Sixty-fifth	10,670 20
12738	G. and Macadamizing	Ninetieth	Green Bay avenue.	Manistee avenue.	22,735 25
12789	C. G. and Macadam.	St. Lawrence avenue.	Forty-fifth.	Fifty-first	38,988 07
12756	C. G. and Macadam.	Kenmore avenue	Lawrence avenue.	Ainslie	5,833 20
12757	C. G. and Macadam.	Fifty-seventh.	Cottage Grove avenue.	Woodlawn avenue	26,173 96

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12772	C. G. and Macadam.	Forty-second.	Drexel boulevard.	Oakenwald avenue.	\$10,560 86
12773	Asphalt Paving	Fulton.	Homan avenue.	Central Park avenue	22,592 95
12774	G. and Macadamizing	Walnut.	Central Park avenue.	Homan avenue	19,559 20
12798	G. and Macadamizing	Johnson avenue.	Archer avenue	Fifty-first	11,050 00
12809	C. F. and Paving	South Chicago avenue.	Commercial avenue.	Ninety-second.	16,261 46
12824	C. G. and Graveling	Warner avenue.	Crawford avenue.	Central Park avenue	1,572 00
12835	Grubbing, Shuttering and Macad.	Fifty-first	Drexel boulevard.	East end.	55,549 40
12853	C. G. and Macadam.	Eastwood avenue.	Sheffield avenue.	Halsted.	6,427 32
12895	Asphalt Paving.	North State.	Division.	North avenue	23,231 21
12842	C. G. and Macadam.	Forty-fourth.	Cottage Grove avenue.	St. Lawrence avenue.	6,564 50
12862	C. G. and Macadam.	Ingleside avenue.	Fifty-fifth.	Fifty-ninth	17,955 55
12863	C. G. and Macadam.	Kenwood place.	Vincennes avenue.	Grand boulevard.	4,147 75
12865	C. G. and Macadam.	Forrestville avenue.	Forty-eighth.	Fifty-first	11,605 20
12914	Grading and Planking	Alleys.	W. ½ Blocks 13 and 18.	C. T. Sub. Sec. 17, 38, 14.	1,915 92
12921	C. G. and Macadam.	Vincennes avenue.	Forty-seventh.	Fifty-first	26,286 50
12923	C. G. and Macadam.	Albany avenue.	Colorado avenue.	West Harrison	8,534 18
13029	Asphalt Paving.	Bonney avenue.	Ogden avenue.	Twenty-sixth.	42,298 41
13041	C. F. and Macadam.	Sixty-second	Halsted.	Wallace.	7,906 58
13060	C. F. and Macadam.	Honore	Sixty-seventh.	Sixty-ninth.	8,316 83
13128	C. F. and Macadam.	Reta.	Addison avenue.	Cornelia	8,100 03
13209	C. F. and Macadam.	Aberdeen.	North Clark.	Evansston avenue	12,807 41
13250	C. G. and Macadam.	Forty-fourth.	Cottage Grove avenue.	St. Lawrence avenue	267 11
13264	C. F. and Macadam.	Seventy-third.	State.	Wallace	22,358 55
13320	C. G. Pav. and Plank.	Alley.	Thirty-first to Thirty-second.	bet. Wentworth and Fifth aves.	1,217 01
13355	G. and Macadamizing.	Ogden avenue.	Crawford avenue.	Forty-sixth.	11,611 45
13361	C. G. and Macadam.	Ontario avenue.	Seventy-ninth.	Eightieth.	2,829 16
13382	Curbing and Filling	West Sixteenth.	Ashland avenue.	Wood	14,935 99
13413	G. and Macadamizing	One hundred and fourth.	Hoxie avenue.	Torrence avenue	648 40
13426	C. G. and Macadam.	Greenwood avenue.	Sixtieth.	Sixty-third	9,443 51
13427	Curbing.	Argyle.	Evansston avenue.	Eastern terminus.	2,683 00
13435	C. F. and Macadam.	Sixty-sixth.	Stewart avenue.	Sherman.	9,367 17
13452	C. F. and Macadam.	Stewart avenue.	Hawthorn avenue.	Seventy-ninth	8,584 26
13461	Grading and Planking	Alley.	Hanover and Williams	bet. Gordon and Forty-fourth.	793 00
13480	C. G. and Macadam.	Champlain avenue.	Forty-seventh.	Forty-ninth	6,560 07
13585	C. F. and Macadam.	Chestnut.	Halsted.	Wallace	7,686 71
13647	C. F. and Macadam.	Champlain avenue.	Forty-ninth.	Fiftieth.	4,304 49

13794	C. G. and Macadam.	St. Lawrence avenue	Forty-fifth.	Fifty-first.	3,774 94
13796	C. G. and Macadam.	Forty second	Drexel boulevard.	Oakenwald avenue	198 80
13797	C. G. and Macadam.	Drexel avenue.	250 feet south of Fifty-first.	Fifty-fifth.	25,237 13
13798	C. G. and Macadam.	Seipp avenue.	Seventy-first.	Seventy-third	5,790 71
13801	C. G. and Macadamizing	Washington avenue.	Seventy-first.	Ninety-fifth.	4,737 50
13803	C. G. and Macadam.	Rockeby	Grace	Addison avenue	6,707 80
13806	C. G. and Macadam.	West 1/2 South Park avenue.	Garfield boulevard.	Centre line Sixtieth	13,107 62
13808	C. F. and Macadam.	Honore.	Sixty-seventh.	Sixty-ninth.	6,571 89
13813	C. F. and Macadam.	Sixty-second	Stony Island avenue.	Illinois Central R. R.	4,531 89
13829	Curbing and Macadam	Vine.	Division.	Vedder	845 09
13832	C. G. and Macadam.	Lawrence avenue.	Sheffield avenue.	Ashland avenue	23,173 80
13834	C. F. and Macadam	Sixty-sixth	Stewart avenue.	Sherman	100 00
13835	Curbing	West Polk.	Centre avenue.	Lytle.	229 82
14050	C. G. and Macadam.	Fifty-third	East End avenue.	Drexel avenue	39,101 53
14054	C. G. and Macadam.	Fifty-fourth	Lake avenue.	Drexel avenue.	34,854 25
14084	C. G. and Macadam.	Lexington avenue.	Sixty-third	Sixty-fifth.	5,517 15
14207	C. F. and Macadam.	Seipp avenue.	Seventy-third.	Seventy-fifth.	5,632 00
14209	C. G. and Macadam.	Seventy-second.	Stony Island avenue	Yates avenue.	25,602 85
14218	C. G. and Macadam.	Champlain avenue.	Fort-seventh.	Forty-ninth	397 00
14223	G. and Macadamizing.	Western avenue.	Egan avenue.	Eighty-seventh	81,782 16
14225	C. G. and Macadam.	Halsted.	Evansston avenue.	Sulzer	664 20
14229	C. F. and Macadam.	Sherman.	Sixty-third.	Sixty-third.	1,785 82
14245	Asphalt Paving	Calumet avenue.	Forty-third.	Fifty-first.	84,541 78
14259	C. F. and Macadam.	Hazel	Sulzer.	Buena avenue	9,251 37
14290	C. G. and Macadam.	Madison avenue.	Sixtieth.	Sixty-sixth	26,115 37
14293	Rep. curb Wall, grad'g & Pav.	Twenty second	State.	Indiana avenue	9,539 76
14338	C. G. and Macadam.	Forty fourth.	Drexel boulevard.	Cottage Grove avenue.	3,057 62
14340	C. F. and Macadam.	Lincoln.	West Fifteenth.	West Eighteenth.	8,703 80
14412	C. F. and Macadam.	Seventy-fourth.	State.	Stewart avenue	16,951 29
14441	C. G. and Macadam.	Waubun avenue	Oakdale avenue.	Wellington avenue.	2,205 98
13972	C. G. and Macadam.	Ohio.	North Clark.	St. Clair	27,715 87
13973	C. G. and Asphalt Pav.	Ohio.	North Clark.	St. Clair	1,088 00
13974	C. G. and Asphalt Pav.	Ohio.	North Clark.	St. Clair.	4,153 88
TOTAL					\$1,397,421 77

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12376	Sewers	Fifty-fifth.	Cottage Grove avenue.	Lake avenue	\$ 13,152 52
12392	do	Calumet avenue.	Forty-first.	Thirty-ninth	3,968 07
12394	do	West Fourteenth.	Robey.	Leavitt	1,803 38
12395	do	Ann.	Carroll.	C., M. & St. P. R'y	482 60
12434	do	North Fifty-ninth.	North Clark.	Herndon.	23,743 12
12439	do	George.	Southport avenue.	Herndon.	1,064 92
12480	do	Oakdale avenue.	Racine avenue.	Herndon	1,063 19
12491	do	Ellis avenue.	Fifty-sixth.	Fifty-seventh.	2,401 05
12492	do	West Sixteenth, etc.	Kedzie avenue, etc.	Douglas Park boulevard.	9,718 25
12493	do	West Fifteenth, etc.	Kedzie avenue, etc.	West Sixteenth.	6,686 97
12450	do	Lawndale avenue.	West Ohio.	West Huron.	1,598 00
12451	do	Farview avenue.	Fullerton avenue.	Humboldt boulevard	2,994 20
12453	do	Hoffman avenue.	Fullerton avenue.	Humboldt boulevard	2,994 20
12453	do	Albany avenue.	West Jackson.	West Congress.	1,636 26
12495	do	Rhine	Western avenue.	Leavitt	2,401 96
12496	do	Pleasant place.	Leavitt.	110 feet west of Oakley avenue.	1,404 92
12497	do	Berlin	Western avenue.	Leavitt	2,401 96
12498	do	Dudley	Hervey.	Asylum place.	1,173 17
12499	do	Coblentz.	Leavitt.	Robey.	2,449 34
12500	do	West Twenty-seventh, etc.	Lawndale avenue, etc.	West Thirtieth.	5,714 44
12530	do	West Polk.	Francisco.	Sacramento avenue	1,187 80
12531	do	Harvard	Albany avenue.	Sacramento avenue	1,144 59
12532	do	Lexington avenue.	Francisco.	Sacramento avenue	1,187 80
12533	do	West Polk.	Washtenaw avenue	543 feet east.	1,067 34
12534	do	Hamlin avenue.	West Ohio.	West Kinzie.	3,440 20
12535	do	Lawndale avenue.	West Ohio.	West Kinzie.	4,001 04
12536	do	West Sixteenth.	Homan avenue, etc.	Ogden avenue.	2,304 37
12537	do	West Harrison.	Central Park avenue, etc.	etc.	4,308 23
12538	do	Fillmore.	etc., etc.	etc.	12,171 00
12539	do	Leavitt	etc., etc.	etc.	9,595 22
12563	do	Roscoe.	Southport avenue.	Racine avenue	2,499 81
12564	do	Frankfort.	Leavitt street.	Robey	2,430 80
12565	do	Fletcher	Southport avenue.	etc.	1,686 88
12566	do	Clarkson avenue.	Hermitage avenue.	Bloomington Road	3,079 18
12567	do	Dunning.	Ward.	etc.	2,173 30
12568	do	Nebraska avenue.	Armitage avenue.	Bloomington Road	2,998 33

12591	Sewers.	Sheridan avenue.	Armitage avenue.	Bloomingdale road	3,176 50
12592	do	Sheridan avenue.	North avenue.	Bloomingdale road.	2,176 50
12593	do	Ninety-fifth.	Calumet river.	Sixth avenue.	9,921 68
12594	do	Clarkson avenue.	Armitage avenue.	Palmer square.	2,876 79
12595	do	Nebraska avenue.	Armitage avenue.	Palmer square.	2,825 19
12596	do	Kedzie avenue.	North avenue.	Bloomingdale road.	3,784 78
12597	do	Kedzie avenue.	Armitage avenue.	Bloomingdale road.	3,884 65
12598	do	Kedzie avenue.	Armitage avenue.	Palmer square.	3,855 43
12599	do	Southport avenue.	Addison avenue.	Roscoe.	2,912 27
12600	do	South side Palmer square.	Humboldt boulevard.	Kedzie avenue.	2,043 50
12601	do	Fifty-seventh.	Center avenue.	Morgan.	3,256 86
12602	do	Forty-eighth.	Halsted.	Wallace.	2,183 60
12603	do	Bristol.	Wentworth.	C., R. I. & P. R'y.	895 00
12623	do	Ashland avenue.	Garfield boulevard.	Fifty-ninth.	769 64
12625	do	Trumbull avenue.	West Ohio.	West Huron.	182 24
12626	do	West Ohio.	Kedzie avenue.	Central boulevard.	6,175 08
12627	do	Thomas, etc.	California avenue, etc.	West Division.	3,909 57
12629	do	Morgan.	Forty-seventh.	Fifty-fourth.	10,387 88
12630	do	West Twenty-first.	Rockwell.	South-West boulevard.	4,831 65
12632	do	Fifty-third.	Drexel avenue.	100 feet E. Cottage Grove avenue	133 00
12634	do	West Twenty-first.	Homan avenue.	554 feet S.-W. of Twelfth.	5,750 20
12635	do	Hamlin avenue.	West Twenty-second, etc.	Homan avenue.	16,804 97
12636	do	Chestnut.	Halsted.	East line Lot 6, etc.	1,236 00
12690	do	East side Humboldt boulevard.	Fullerton avenue, etc.	Milwaukee avenue.	4,730 80
12691	do	West side Humboldt boulevard.	Fullerton avenue.	Logan square.	2,750 63
12692	do	West side Humboldt boulevard.	Fullerton avenue.	Palmer square.	5,546 55
12693	do	Belmont avenue.	Western avenue.	907 feet west.	1,816 92
12694	do	School.	Forty-third.	Layton.	2,236 13
12695	do	School.	Forty-fifth.	Forty-sixth.	984 16
12713	do	Greenwood avenue.	Fifty-sixth.	Fifty-fourth.	375 00
12715	do	Perry avenue.	Fullerton avenue, etc.	Southport avenue.	343 85
12733	do	Forest avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12734	do	Myrtle avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12735	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12736	do	Linden.	Fullerton avenue.	Humboldt boulevard.	2,994 20
12737	do	Albany avenue.	West Harrison.	West Twelfth.	4,799 28
12744	do	Kuehl place, etc.	Elston avenue, etc.	Asylum place.	4,804 35
12745	do	Leavitt, etc.			12,733 63
12749	do	Hamlin avenue, etc.			24,423 25
12750	do	Frank.	Diversey avenue.	Surf.	800 00
12759	do	One hundredth.	Calumet river.	Eleventh avenue.	20,095 45
12760	do	Fifty-seventh.	Halsted.	Wallace.	4,019 00

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12761	Sewers.....	Fifty-seventh.....	Ashland avenue.....	Loomis.....	\$ 3,475 22
12784	do.....	Humboldt boulevard.....	Western avenue.....	Milwaukee avenue.....	9,270 50
12785	do.....	Thomas avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	1,976 57
12786	do.....	Richmond avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	2,565 73
12787	do.....	School.....	Thirty-ninth.....	Root.....	3,501 48
12789	do.....	Kedzie avenue.....	Augusta.....	Weage.....	8,279 91
12800	do.....	Diversey avenue.....	North branch Chicago river.....	Kedzie avenue.....	88,283 18
12802	do.....	Crawford avenue.....	West fork, South branch Chicago river.....	West Division.....	334,874 94
12804	do.....	George.....	Sheffield avenue.....	Seminary avenue.....	1,032 40
12805	do.....	Noble avenue.....	Racine avenue.....	Perry.....	3,547 00
12811	do.....	Bryn Maur avenue.....	Evanston avenue.....	North Clark.....	10,751 00
12817	do.....	Fifty-first.....	Halsted.....	Wallace.....	300 00
12818	do.....	Grand avenue.....	Augusta.....	Division.....	23,318 00
12819	do.....	Thirty-fifth, etc.....	Western avenue, etc.....	Plesson, etc.....	107,997 49
12820	do.....	One Hundred and third.....	Calumet river.....	Avenue "C".....	24,313 61
12822	do.....	California avenue.....	Chicago avenue.....	Grand avenue.....	3,002 04
12823	do.....	Drainage system and Pumping works.....	Woodlawn drainage system.....	.....	8,200 00
12828	do.....	Centre.....	Wellington.....	To a point 255 feet north.....	419 00
12840	do.....	Washtenaw avenue.....	West Division.....	Hirsch.....	2,508 68
12843	do.....	One Hundred and sixth.....	Calumet river.....	Indiana State line.....	30,613 02
12851	do.....	Fifty-third.....	Center avenue.....	Morgan.....	3,703 16
12852	do.....	Seventy-fourth.....	Halsted.....	Morgan.....	4,401 70
12853	do.....	Throop.....	Forty-seventh.....	Forty-ninth.....	2,945 28
12854	do.....	Sherman.....	Sixty-third court.....	Sixty fourth.....	590 40
12855	do.....	Sherman.....	Fifty-sixth to a point 247 feet South of Fifty-eighth.....	South of Fifty-eighth.....	3,149 74
12856	do.....	Fiftieth.....	Halsted.....	Union avenue.....	1,178 83
12857	do.....	Niagara.....	Halsted.....	Union avenue.....	1,214 58
12858	do.....	Fifty-eighth.....	Halsted.....	Sherman.....	3,294 15
12859	do.....	Tracey avenue.....	Fifty-ninth.....	Alley south of Fifty-eighth.....	646 50
12860	do.....	Forrestville avenue.....	Forty-eighth.....	Fifty-first.....	5,262 78
12861	do.....	Side of Humboldt boulevard.....	Fullerton avenue.....	Palmer square, etc.....	8,236 91
12904	do.....	Central Park avenue, etc.....	West Ohio.....	West Kinzie.....	4,178 70
12905	do.....	Francisco.....	Augusta.....	Chicago avenue.....	3,168 54
12906	do.....	Seventy-third.....	Halsted.....	Morgan.....	5,682 50
12907	do.....	Sixty-fifth.....	Halsted.....	Centre avenue.....	9,583 11
12908	do.....	Eighty-eighth.....	Buffalo avenue.....	Mackinaw avenue.....	729 50

13917	Sewers.	Sheridan avenue.	West Ohio.	West Kinzie.	3,249 44
13918	do	Ingleside avenue.	Fifty-sixth.	Fifty-ninth.	4,921 75
13923	do	St. Lawrence avenue.	Forty-sixth.	Forty-seventh.	5,814 95
13926	do	Walnut.	from a point 270 feet west of west line of St. Louis avenue to west 205 feet.	480 87	
13927	do	Sixty-third.	Halsted.	Sherman.	4,285 30
13929	do	Sixty-third.	Sherman.	Stewart avenue.	5,321 00
13949	do	Melrose avenue.	Robey.	Alley east of Hoyne avenue.	775 70
13950	do	Oakdale avenue.	Racine avenue.	Seminary avenue.	1,338 00
13951	do	Superior avenue.	Ninety-second.	Alley south of Ninety-first.	1,026 50
13952	do	Kenwood place.	Vincennes avenue.	Morgan.	2,062 85
13953	do	Seventy-first.	Halsted.	School, etc.	5,082 50
13954	do	Leavitt.	Belmont avenue.	Seventy-first.	1,955 60
13955	do	Emerald avenue.	Seventy-third.	Sixty-second.	2,739 80
13956	do	Sagamon.	Fifty-ninth.	Fifty-first.	3,999 49
13957	do	St. Lawrence avenue.	Forty-seventh.	C., B. & Q. R. R.	6,659 77
13958	do	Sawyer avenue.	West Twenty-second.	Alley north of Ninety-first.	575 00
13959	do	Mackinaw avenue.	Eighty-seventh.	Wood.	4,831 20
13960	do	Thirty-third court.	Paulina.	Wood.	1,231 08
13961	do	Thirty-fourth.	Paulina.	Spaulding avenue.	1,222 82
13962	do	North side Ogden avenue.	Kedzie avenue.	Fullerton avenue.	2,574 18
13963	do	Perry avenue.	Milwaukee avenue.	McGovern, etc.	6,597 77
13965	do	Catalpa place.	Fullerton avenue.	Champlain avenue, etc.	3,363 62
13966	do	Fiftieth.	St. Lawrence avenue.	Homan avenue.	1,790 73
13973	do	West Van Buren.	Kedzie avenue.	Butler.	4,058 20
13974	do	Thirty-third.	Wallace.	Central Park avenue.	1,176 50
13975	do	Fulton.	Homan avenue.	Tuttle avenue.	2,449 41
13982	do	Ashland avenue.	Lawrence avenue.	Grace.	2,501 66
13983	do	Jansen avenue.	Nellie avenue.	Seventy-fourth.	1,328 18
13954	do	Peoria.	Seventy-first.	Sixty-third.	4,410 20
13955	do	Green.	Fifty-ninth.	Sixty-third.	5,814 35
13956	do	Morgan.	Sixty-third.	Sixty-fifth.	2,496 00
13979	do	Forty-eighth.	Center avenue.	Aberdeen.	2,227 89
13991	do	Alley, through.	Blocks 1 and 4, Wright & Winde	it's Sub. Sec. 9, 38, 14.	2,164 00
13992	do	Aberdeen.	Forty-eighth.	Fifty-fourth.	9,144 08
13993	do	Fiftieth.	Halsted.	Morgan.	2,821 17
13994	do	Union avenue.	Fifty-sixth.	Fifty-eighth.	2,720 23
13996	do	Palmer avenue.	California avenue.	Humboldt boulevard.	2,198 00
13997	do	Hicking avenue.	Halsted.	Alley east of Morgan.	2,476 12
13998	do	Keeney avenue.	North avenue.	Bloomington road.	3,335 14
13999	do	Superior avenue.	Eighty-seventh.	Alley north of Ninety-first.	6,476 23
13100	do	Keeney avenue.	Bloomington road.	Humboldt avenue.	6,511 66

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13101	Sewers.	Washenaw avenue.	Fillmore	Grenshaw	4,593 80
13102	do	Mitchell.	North avenue	Bloomingdale road.	3,104 42
13103	do	Norman avenue.	North avenue	Bloomingdale road.	3,104 42
13104	do	Leavitt	Belmont avenue	Clybourn avenue	2,134 26
13105	do	West Harrison.	Kedzie avenue	Homan avenue	4,113 20
13106	do	Tripp avenue.	North avenue	Bloomingdale road.	3,185 79
13107	do	Tripp avenue.	Bloomingdale road.	Humboldt avenue.	6,320 17
13108	do	Spaulding avenue.	West Van Buren.	West Jackson, etc.	5,163 36
13109	do	West Chicago avenue	Kedzie avenue	Humboldt boulevard	8,886 07
13110	do	Eddy.	Racine avenue	Seminary avenue	2,029 87
13113	do	Calumet avenue.	Forty-fifth	Forty-seventh	3,442 05
13174	do	Flournoy.	Albany avenue.	Sacramento avenue	1,181 40
13175	do	Wright.	Seventy-third	Seventy-second, etc	5,237 87
13177	do	Sixty-fifth.	Wright	100 feet west of Stewart avenue.	883 74
13200	do	Fiftieth.	Cottage Grove avenue.	Alley west of Drexel boulevard.	3,093 09
13201	do	Frazier avenue.	Forty-seventh	Forty-ninth	2,945 18
13202	do	Emerald avenue.	Fifty-sixth	Fifty-seventh.	1,348 27
13203	do	Hoffman avenue.	Milwaukee avenue.	Fullerton avenue.	3,996 76
13230	do	Weed.	Smith	Sheffield avenue	1,035 36
13231	do	Selden.	Larrabee	100 feet south of line of Hirsch.	1,014 55
13232	do	Osgood.	290 feet south of line of Center.	Poe	656 12
13233	do	Judson.	Blackhawk.	Eastman	709 00
13234	do	Seminary avenue.	Center avenue	Maud avenue.	1,183 47
13235	do	Howard avenue.	North avenue	Bloomingdale road	3,185 79
13236	do	Howard avenue.	Bloomingdale road	Humboldt avenue.	6,320 17
13243	do	Churchill.	Robey	Leavitt	2,266 00
13238	do	Oakley avenue.	West Ohio	West Erie	818 10
13273	do	Central Park avenue.	North avenue.	Bloomingdale road.	3,176 50
13274	do	Ballou.	North avenue.	Bloomingdale road.	3,176 50
13275	do	Mead.	North avenue.	Bloomingdale road.	3,176 50
13276	do	Mead.	Armitage avenue.	Bloomingdale road.	3,176 50
13277	do	Ballou.	McLean avenue	Bloomingdale road.	4,505 74
13278	do	Lawndale avenue.	Armitage avenue.	McLean avenue	1,329 22
13279	do	Kimball avenue.	North avenue.	Bloomingdale road.	3,176 50
13280	do	Hamlin avenue.	Armitage avenue.	McLean avenue.	1,329 22
13281	do	Oglesby avenue.	North avenue.	Bloomingdale road.	3,176 50

13889	Sewers.	McLean avenue.	Kimball avenue.	Hamlin avenue.	4,586 00
13421	do	Homer.	Western avenue.	Washenaw avenue.	3,927 58
13422	do	Central Park avenue.	West Lake.	West Kinzie.	2,850 01
13434	do	Elston avenue.	Snow.	Belmont avenue.	15,544 76
13438	do	East $\frac{1}{2}$ Herndon.	Diversey avenue.	450 feet south.	864 79
13439	do	West $\frac{1}{2}$ Herndon.	Diversey avenue.	450 feet south.	864 79
13440	do	Wright.	Thirty-ninth.	Root.	7,906 80
13444	do	California avenue.	Elston avenue.	Garden avenue.	3,877 44
13447	do	Randolph.	Albany avenue.	West 493 feet.	925 95
13448	do	Aberdeen.	Fifty-ninth.	Sixty-third.	5,246 82
13455	do	West Twenty-first.	Western avenue.	Union Stock Yards T. Co. right of way	1,351 80
13456	do	West Twenty-first.	Rockwell.	C., St. L. & P. right of way	1,580 08
13457	do	Campbell avenue.	West Twelfth.	510 feet south.	1,066 69
13458	do	Houston avenue.	Eighty-ninth.	Alley north of Ninety-first.	2,706 74
13459	do	Leavitt.	Wabansia avenue.	400 feet south.	729 00
13460	do	Racine avenue.	and Seminary avenue.	Newport avenue.	2,580 97
13481	do	Forty-third.	State.	195 feet west of Dearborn.	1,875 43
13482	do	Grand avenue.	California avenue.	Western avenue.	19,279 00
13483†	do	Carpenter.	Fifty-ninth.	Sixty-third.	4,966 66
13484	do	Morgan.	Fifty-ninth.	Sixty-third.	5,268 45
13534	do	Ashland avenue.	South fork, South branch Chicago river.	Thirty-ninth.	1,577 65
13555	do	Emerald avenue.	Sixty-fifth.	Sixty-sixth.	1,416 25
13556	do	Morgan.	Sixty-seventh.	Sixty-eighth.	1,481 96
13557	do	Sangamon.	Sixty-seventh.	Sixty-eighth.	1,481 96
13558	do	Green.	Sixty-seventh.	Sixty-eighth.	1,481 93
13559	do	Sacramento avenue.	Twelfth.	Fillmore.	1,806 88
13560	do	Peoria.	Sixty-seventh.	Sixty-eighth.	1,481 96
13561	do	Edbrooke place.	Western avenue.	West 265 feet.	686 65
13563	do	Forty-third.	Ashland avenue.	Wood.	5,178 94
13564	do	Fortieth court.	Wallace.	Wright.	1,343 74
13597	do	Moore.	Western avenue.	Wright.	1,343 74
13598	do	Bismark.	California avenue.	East line C., St. L. & P. R. R.	2,748 55
13599	do	Rebecca.	California avenue.	Rockwell.	3,949 92
13600	do	Werder.	California avenue.	Rockwell.	2,748 55
13601	do	Thomas.	Dudley.	West 210 feet.	389 64
13602	do	Jamot.	Robey.	Leavitt.	3,040 56
13603	do	Fulton.	Columbia place.	East 265 feet.	681 57
13604	do	Rosemerkel.	Wright.	Stewart avenue.	1,214 58
13622	do	Mozart.	Armitage avenue.	Shakespeare avenue.	9,133 29
13623	do	Evanston avenue.	Aberdeen.	Argyle.	18,374 43
13636	do	Diversey avenue.	North branch Chicago river.	Kedzie avenue.	3,188 00

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warr ^{nt}	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13645	Sewers	Jackson avenue.	Fifty-third	Fifty-fourth	\$ 1,575 60
13708	do	Fifty-sixth.	Center avenue.	Morgan	3,606 39
13709	do	Avers avenue.	West Ohio.	West Chicago avenue.	7,169 60
13710	do	Harvard	Seventy-third	Seventy-fifth	2,787 18
13711	do	Albany avenue.	West Ohio.	West Kinzie.	4,349 69
13714	do	Webster avenue.	Seventy-third	Seventy-fifth	2,787 18
13729	do	Mackinaw avenue.	Eighty-seventh.	Alley north of Ninety-first	92 25
13731	do	Myrtle avenue.	Fullerton avenue.	Humboldt boulevard	743 70
13731	do	Laurel avenue.	Fullerton avenue.	Humboldt boulevard	209 00
13733	do	Linden avenue.	Fullerton avenue.	Humboldt boulevard	777 35
13743	do	Armour avenue.	Forty-sixth	Forty-fifth court	815 63
13743	do	Kedzie avenue.	West Twenty-second.	West Twenty-sixth.	28,754 89
13744	do	Wilmet.	Hoyne avenue.	Leavitt	1,737 23
13745	do	Sixty-second.	Stony Island avenue.	L. C. R. R. right of way.	1,982 75
13746	do	Stony Island avenue.	Sixty-third	Sixty-seventh.	9,220 35
13747	do	Sixtieth court.	Halsted	Winter.	1,265 56
13748	do	Stony Island avenue.	Fifty-sixth	Fifty-ninth.	8,215 38
13781	do	Clifton avenue.	Diversey avenue.	Humboldt boulevard.	3,038 21
13782	do	Cottage Grove avenue.	Fifty-sixth	Fifty-ninth.	5,560 76
13783	do	McAuley avenue.	North avenue.	Bloomingsdale road.	3,214 30
13784	do	Central Park boulevard.	St. Louis avenue	Central Park avenue	1,270 85
13785	do	Ferdinand.	Robey	Hoyne avenue.	1,249 57
13786	do	Morgan.	Fifty-seventh.	Alley south of Garfield boulevard	2,093 78
13787	do	Springfield avenue.	West Ohio.	West Kinzie	3,897 98
13788	do	Central Park boulevard.	St. Louis avenue.	Central Park (etc.) avenue	2,513 32
13789	do	McAuley avenue.	Armitage avenue.	Bloomingsdale road.	3,158 58
13790	do	Burchell	Diversey avenue.	Humboldt boulevard.	3,029 20
13791	do	Richmond avenue.	Diversey avenue.	Humboldt boulevard.	3,029 21
13921	do	Hamlin avenue.	Ogden avenue.	West Sixteenth, etc.	2,437 76
13922	do	California avenue.	Fullerton avenue.	Humboldt Park boulevard.	3,906 79
13923	do	Burchell	Fullerton avenue.	Humboldt Park boulevard.	3,003 48
13924	do	Clifton.	Fullerton avenue	Humboldt Park boulevard.	3,003 48
13925	do	Atlantic.	Forty-third.	Forty-fifth	3,037 21
13927	do	West Thirteenth.	Kedzie avenue.	Albany avenue	7,892 57
13928	do	Union avenue.	Seventy-first	Seventy-third	2,917 48
13931	do	Augusta, etc.	California avenue, etc., etc.	Rockwell, etc.	17,316 04

13946	Sewers	Augusta	Robey	Western avenue	12,191 68
13947	do	Western avenue	West Chicago avenue	Thomas	8,185 00
13951	do	St. Lawrence (etc.) avenue	Forty-sixth	Forty-seventh	70 00
13959	do	Frank	Diversey avenue	Surf	260 40
13961	do	Fifty-seventh	Halsted	Wallace	1,216 60
13964	do	Humboldt boulevard	Western avenue	Milwaukee avenue	3,636 60
13965	do	Thomas avenue	Milwaukee avenue	Humboldt boulevard	1,128 00
13966	do	Richmond avenue	Milwaukee avenue	Humboldt boulevard	1,466 50
13980	do	Hundred and third	Calumet river	Avenue C	1,988 50
13985	do	Kedzie avenue	Armitage avenue	Palmer square	1,826 19
13988	do	Thomas avenue	Diversey avenue	Humboldt boulevard	3,039 21
13989	do	Kedzie avenue	Diversey avenue	Logan square	3,868 93
13990	do	Ridgeway avenue	West Ohio	West Chicago avenue	6,106 87
13991	do	Phinney	West Ohio	West Chicago avenue	3,242 10
13992	do	Linden avenue	Diversey avenue	Humboldt boulevard	3,039 17
13993	do	Avers avenue	West Ohio	West Kinzie	3,613 14
13994	do	Wallace avenue	Humboldt boulevard	Diversey avenue	3,038 48
13995	do	Tinkham avenue	West Ohio	West Kinzie	3,464 50
13996	do	Sheridan avenue	West Ohio	West Chicago avenue	3,242 10
13997	do	Hamlin avenue	Fulton	West Kinzie	825 30
13998	do	Forest avenue	Diversey avenue	Humboldt boulevard	3,039 17
13999	do	Milwaukee avenue	Diversey avenue	Kedzie avenue	4,236 23
14000	do	Homan avenue	West Madison	West Jackson	2,473 47
14001	do	Roscoe	Racine avenue	Alley west of Sheffield avenue	3,309 39
14067	do	West Twenty-sixth	California avenue	A point 52 1/2 feet E. of E. line of Rockwell	4,410 02
14085	do	North side Humboldt boulevard	California avenue	A point 22 1/2 ft. W. of the E. line of Wallace av.	4,006 13
14086	do	North side Humboldt boulevard	Fairview avenue	California avenue	4,245 83
14188	do	Fifty-second	Drexel avenue	Lake avenue	3,814 67
14200	do	Homan (etc.) avenue	West Sixteenth, etc., etc.	Douglas Park (etc.) boulevard	33,536 18
14202	do	Kedzie (etc.) avenue	to a point 260 feet	East of east line	34,167 68
14203	do	Ashland avenue	South fork, South branch Chicago river	Thirty-ninth	58 50
14204	do	Forty-eighth	Calumet avenue, etc.	Alley west of Grand boulevard	1,931 77
14206	do	Central Park avenue	West Lake	West Kinzie	3,000 00
14219	do	Maplewood avenue	Diversey avenue	Humboldt boulevard	3,029 17
14230	do	Albany avenue	West Harrison	West Twelfth	96 00
14237	do	Bryn Maur avenue	Evanston avenue	North Clark	342 95
14247	do	West Taylor	Calhoun avenue	Francisco	1,598 05
14253	do	West Van Buren	Central Park avenue	A point 120 ft. E. of the E. line of Trumbull av.	2,892 55
14279	do	Irving Park boulevard	North branch Chicago river	Milwaukee avenue	116,820 03
14284	do	Moore	California avenue	West line of right of way C. St. L. & P. R. R.	4,194 70
14285	do	West Taylor	Albany avenue	Francisco	2,870 34
14286	do	Homan avenue	West Ohio	West Chicago avenue	2,104 98

STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14201	Sewers	Webster avenue.	Evanston avenue.	Southport avenue.	\$ 2,687 35
14202	do	Dexter avenue.	Wallace	Wright	1,387 95
14415	do	Thirty-third	between Butler	and the right of way of the C., R. I. & P. Ry.	4,225 27
14420	do	Dearborn	Fifty-ninth.	the N. line S. 4 acres E. of R. E. of Lot 9.	1,065 00
14424	do	Hoffman avenue.	Diversey avenue.	Humboldt boulevard.	3,029 17
14425	do	West Harrison	Homan avenue.	Central Park boulevard.	3,781 77
14426	do	Drake avenue.	West Ohio.	West Chicago avenue	3,251 38
14430	do	Humboldt avenue.	Diversey avenue.	Humboldt boulevard.	3,038 48
14431	do	Lawndale avenue.	West Huron.	West Chicago avenue	3,549 38
14432	do	Laurel avenue.	Diversey avenue.	Humboldt boulevard.	3,029 17
		TOTAL.			\$1,951,228 54

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12375	Water Service Pipes	Lawrence avenue.	Sheffield avenue.	Ashland avenue	\$ 3,588 75
12388	do	Cornelia	North Halsted.	Lake Michigan.	1,995 00
12384	do	Forty-seventh.	Evanston avenue.	Sulzer.	3,357 50
12398	do	Thirty-eighth.	Halsted	Paulina.	5,473 50
12401	do	Wabash avenue.	Stewart avenue.	Laurel	1,580 00
12414	do	Mackinaw avenue.	Fifty-fifth.	Sixty-third	8,722 00
12415	do	Union avenue.	Eighty-seventh.	Eighty-ninth	1,886 00
12435	do	Twenty-seventh.	Forty-seventh.	Fifty-fifth.	6,191 00
12507	do	Wabansia avenue.	Portland avenue.	Stewart avenue.	192 00
12509	do	Grand avenue.	Robey.	Milwaukee avenue.	391 00
12510	do	Seipp avenue.	Seventy-first	West Chicago avenue	2,988 00
12511	do	Jay.	Webster avenue	Seventy-third	1,680 00
12512	do	Jay.	Centre	Fullerton avenue	637 50
12513	do	Jone place.	Grand boulevard.	Garfield avenue	184 00
12545	do	Ontario avenue.	Seventy-ninth.	Vincennes avenue	559 00
				Eightieth.	427 50

12546	Water Service Pipes	Bond avenue.....	Seventy-ninth.....	Eightieth.....	924 00
12547	do	Washtenaw avenue.....	West Twelfth.....	Ogden avenue.....	770 00
12548	do	Ashland avenue.....	Garfield boulevard.....	Fifty-ninth.....	8,066 25
12549	do	Albany avenue.....	Ogden avenue.....	Douglas Park boulevard.....	903 00
12590	do	Chestnut place.....	Delaware place.....	Walton place.....	193 00
12611	do	Forty-fifth.....	Wentworth avenue.....	Stewart avenue.....	905 00
12612	do	Sixty-first.....	Wallace.....	Halsted.....	1,804 00
12613	do	Sixty-fourth.....	Wallace.....	Union.....	1,861 00
12631	do	Eastwood avenue.....	Sheffield avenue.....	North Halsted.....	1,491 75
12631	do	Armitage avenue.....	Kedzie avenue.....	C. M. & St. P. R'y.....	5,947 50
12649	do	Otto.....	Paulina.....	Wood.....	351 00
12650	do	Sixty-sixth.....	Stewart avenue.....	Sherman.....	1,030 00
12651	do	Addison avenue.....	Ashland avenue.....	Clark.....	4,638 25
12652	do	Langley avenue.....	Fortieth.....	Forty-second.....	414 00
12653	do	Dunning.....	Racine avenue.....	Southport avenue.....	450 00
12654	do	Laughton.....	Hoyle avenue.....	California avenue.....	3,436 50
12655	do	String.....	Canalport avenue.....	West Twenty-first.....	390 00
12656	do	Lill avenue.....	North Halsted.....	Lincoln avenue.....	563 50
12657	do	Wright.....	Sixty-fifth.....	Sixty-ninth.....	2,457 00
12658	do	Sherman.....	Sixty-third.....	Sixty-fifth.....	1,281 00
12659	do	Ashland avenue.....	Robey.....	Olive.....	150 00
12696	do	Central Park avenue.....	West Madison.....	West Harrison.....	2,280 00
12697	do	Melrose.....	Evanston avenue.....	Eastern terminus.....	450 00
12698	do	Lewis.....	Wrightwood avenue.....	Diversey avenue.....	450 00
12699	do	Greenwood avenue.....	Irving Park boulevard.....	Everett.....	560 00
12751	do	Fifty-first.....	Western avenue.....	Johnson avenue.....	10,960 00
12788	do	St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	5,418 00
12789	do	Hoyle avenue.....	Asylum place.....	Fullerton avenue.....	792 00
12790	do	Leavitt.....	Asylum place.....	Fullerton avenue.....	1,232 00
12791	do	Frank.....	Diversey avenue.....	Surf.....	495 00
12792	do	Linden avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,012 00
12812	do	Wellington.....	Halsted.....	Sheffield avenue.....	830 00
12847	do	Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard.....	792 00
12848	do	Forest avenue.....	Fullerton avenue.....	Humboldt boulevard.....	770 00
12850	do	Belmont avenue.....	Western avenue.....	North branch Chicago river.....	1,716 00
12866	do	Forestville avenue.....	Forty-eighth.....	Fifty-first.....	2,640 00
12869	do	Hoffman avenue.....	Fullerton avenue.....	Humboldt boulevard.....	814 00
12871	do	Myrtle avenue.....	Fullerton avenue.....	Humboldt boulevard.....	968 00
12874	do	Laurel avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,012 00
12878	do	California avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	1,330 00
12879	do	Thomas.....	Western avenue.....	Seymour.....	175 00
12879	do	Ellis avenue.....	Fifty-fifth.....	Fifty-sixth.....	637 50

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES — CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12880	Water Service Pipes.	Swift place.	Wentworth avenue.	Stewart avenue.	\$ 345 00
12881	do	Forty-fifth.	State.	Grand boulevard.	607 50
12882	do	California avenue.	Belmont avenue.	Humboldt boulevard.	4,794 50
12883	do	South Dearborn.	Egan avenue.	Root.	2,464 00
12884	do	Armour avenue.	Egan avenue.	Root.	2,486 00
12909	do	Calumet avenue.	Egan avenue.	Forty-seventh.	7,890 50
12915	do	Gehrke avenue.	North Clark.	Sheffield avenue.	858 00
12916	do	Wellington.	Sheffield avenue.	Southport avenue.	1,008 00
12996	do	Kedzie avenue.	Augusta.	West North avenue.	3,050 00
12997	do	Millard avenue.	West Twenty-sixth.	West Twenty-eighth.	2,024 00
13016	do	Church place.	Archer avenue.	Fuller.	288 00
13017	do	Parnell avenue.	Twenty-ninth.	Thirty-first.	225 00
13018	do	Indiana avenue.	Forty-third.	Forty-fifth.	2,548 00
13019	do	South Chicago avenue.	Commercial avenue.	Ninety-second.	1,036 00
13020	do	Gross avenue.	Loomis.	Forty-seventh.	2,288 00
13021	do	Haynes court.	Archer avenue.	Lyman.	176 00
13027	do	Fifty-seventh.	Wentworth avenue.	Halsted.	2,266 00
13028	do	Park avenue.	West Fortieth.	West Forty-sixth.	6,132 50
13030	do	West Monroe.	Kedzie avenue.	Central Park avenue.	3,720 00
13031	do	Quinn.	Archer avenue.	Thirty-first.	1,743 00
13080	do	South Park avenue.	Fifty-first.	Fifty-fifth.	1,920 00
13111	do	West Congress.	Albany avenue.	Kedzie avenue.	1,034 00
13112	do	Ingleside avenue.	Fifty-fifth.	Fifty-ninth.	4,350 00
13113	do	Carroll avenue.	West Fortieth.	West Forty-sixth.	4,045 50
13115	do	Madison avenue.	Sixtieth.	Sixty-sixth.	4,298 75
13117	do	Albany avenue.	West Twelfth.	Douglas Park boulevard.	858 00
13118	do	Clarinda.	Holt.	Ashland avenue.	209 00
13119	do	Leavitt.	Armitage avenue.	Asylum place.	704 00
13120	do	Forty-seventh.	State.	Cottage Grove avenue.	3,849 75
13121	do	Forty-second.	Drexel boulevard.	Oakenwald avenue.	728 00
13122	do	Wolfram.	North Halsted.	Racine avenue.	1,298 00
13126	do	St. Hedwig's avenue.	Asylum place.	Pulaski.	495 00
13127	do	Sobieski avenue.	Asylum place.	Fullerton avenue.	728 00
13128	do	Berlin.	Hoynes avenue.	Western avenue.	1,491 00
13129	do	Pleasant place.	Robey.	Western avenue.	1,701 00
13165	do	Lister avenue.	Robey.	Asylum place.	1,804 00

13176	Water Service Pipes.	Forty-third.	State	Halsted	1,710 00
13307	do	Forty-second place.	Grand boulevard	Vincennes avenue.	168 00
13310	do	Ellis avenue.	Egan avenue.	Forty-third.	2,178 00
13311	do	Fulton.	Homan avenue.	Central Park avenue	2,184 00
13316	do	Kenwood place.	Vincennes avenue	Grand boulevard.	644 00
13317	do	Churchill	Robey.	Leavitt.	805 00
13321	do	Montana.	Western avenue	Station.	276 00
13322	do	Station.	Western avenue	Leavitt	1,832 50
13323	do	Lill.	Western avenue	Station	1,035 00
13324	do	Twenty-ninth.	Halsted	Main	1,507 50
13325	do	Washtenaw avenue.	West Lake.	West Kinzie.	483 00
13327	do	Greenwood.	Western avenue	Station	260 00
13330	do	North avenue.	Western avenue	Crawford avenue	2,088 05
13351	do	Fifty-first	State	Grand boulevard	2,520 00
13353	do	Elgin.	Purple.	Stewart avenue.	379 80
13352	do	Pleasant	Division	Vedder	210 00
13358	do	West Jackson.	West Forty-sixth.	West Forty-seventh.	987 00
13359	do	Owasc.	West Forty-sixth.	West Forty-seventh.	960 00
13360	do	West Van Buren.	West Forty-sixth.	West Forty-seventh.	960 00
13365	do	Indiana avenue.	Egan avenue	Forty-third.	4,969 75
13431	do	Walnut.	Homan avenue	Central Park avenue	1,382 50
13539	do	Superior avenue.	Eighty-ninth.	Ninety-second	1,102 50
13540	do	Loomis.	Fifth-fifth.	Fifty-ninth.	3,432 00
13541	do	Bonney avenue.	Ogden avenue.	Douglas Park boulevard.	4,928 00
13542	do	Bishop.	Garfield boulevard.	Fifty-ninth	3,432 00
13543	do	Coblentz.	Robey.	Leavitt	667 00
13547	do	Frankfort	Hoyle avenue.	Leavitt	450 00
13548	do	Oakley avenue.	Fullerton avenue	Station.	483 00
13549	do	Rhine	Leavitt.	Western avenue	967 50
13550	do	Honore.	Sixty-seventh	Sixty-ninth	1,457 50
13552	do	Armitage avenue.	California avenue.	Kedzie avenue	1,417 50
13553	do	Byron	California avenue.	Humboldt boulevard.	644 00
13565	do	Graceland avenue.	North Clark	C. & N.-W. R'y	1,909 50
13566	do	Fifty-first	Wallace	Ashland avenue	8,030 00
13567	do	Humboldt Park boulevard.	Logan square.	Western avenue	5,712 00
13568	do	Palmer place.	North, south, east and west sides	Logan square	2,058 00
13569	do	Humboldt boulevard.	North avenue	Ogden avenue.	6,830 00
13570	do	Millard avenue.	West Twelfth	Egan avenue	5,506 00
13571	do	Lowe avenue.	Twenty-sixth.	Stewart avenue.	5,730 00
13572	do	Forty-fifth	Wallace		900 00
13573	do	Logan square.	North, south, east and west sides		817 00
13578	do	Reta.	Addison avenue.	Cornelia.	989 00

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES—CONTINUED.

No. of Ward	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
18712	Water Service Pipes.	Yates avenue.	Seventy-first.	Seventy-ninth.	\$ 7,912 00
18713	do	Seipp avenue.	Seventy-third.	Seventy-fifth.	1,618 00
18777	do	Seventy-third.	State.	Wallace.	2,745 00
18778	do	Prairie avenue.	Egan avenue.	Forty-second.	4,075 50
18779	do	West Van Buren.	Homan avenue.	Central Park avenue.	1,552 50
18889	do	Calumet avenue.	Forty-seventh.	Fifty-first.	4,048 00
18840	do	Cottage Grove avenue.	Fifty-first.	Fifty-ninth.	4,374 00
18841	do	North Centre avenue.	Kinzie.	Austin avenue.	540 00
18842	do	Aberdeen.	North Clark.	Evanston avenue.	3,060 00
18843	do	Calumet avenue.	Thirty-seventh.	Thirty-eighth.	1,607 50
18844	do	Stewart avenue.	Seventy-seventh.	Seventy-ninth.	1,237 50
18845	do	Lawndale avenue.	C., B. & Q. R. R.	125 feet south of West Twenty-second.	360 00
18846	do	Genesee avenue.	Colorado avenue.	West Harrison.	540 50
18847	do	Melrose.	Evanston avenue.	Halsted.	945 00
18848	do	Newport avenue.	Sheffield avenue.	Halsted.	1,800 00
18849	do	Bonney avenue.	Colorado avenue.	West Harrison.	305 50
18850	do	Hickory.	Main.	Cologne.	517 50
18875	do	Prairie avenue.	Forty-second.	Fifty-first.	11,928 00
18876	do	Seventy-fourth.	State.	Stewart avenue.	1,350 00
18877	do	Seventy-first.	Indiana avenue.	South Park avenue.	1,315 00
18878	do	Seminary avenue.	Cottage Grove avenue.	South Park avenue.	1,192 50
18908	do	North place.	Centre.	Maud avenue.	585 00
18909	do	Maud avenue.	Armitage avenue.	Northwestern terminus.	157 50
18910	do	Hundred and fifteenth.	Racine avenue.	Sheffield avenue.	585 00
18918	do	St. Lawrence avenue.	Illinois Central R. R.	State.	3,555 00
18967	do	Hoyle avenue.	Forty-fifth.	Fifty-first.	435 00
18969	do	Frank.	Asylum place.	Fullerton avenue.	43 50
18970	do	Linden avenue.	Diversey avenue.	Surf.	178 00
18981	do	Kenmore avenue.	Fullerton avenue.	Humboldt.	369 75
14017	do	Erie avenue.	Lawrence avenue.	Ainslie.	1,452 00
14018	do	Fairfield avenue.	Eighty-seventh.	Ninety-first.	3,330 00
14019	do	Indiana avenue.	North avenue.	Hirsch.	1,395 00
14020	do	Ashtland avenue.	Twelfth.	Pumping Works.	360 00
14021	do	Drexel avenue.	Austin avenue.	Milwaukee avenue.	153 00
14168	do	Washington Heights.	Sixtieth.	Sixty-third.	3,074 00
			Supplemental Assessment to supply the installment of gas in known as Washington Heights No 31		7,834 49

14186	Water Service Pipes.	Fifty-fourth place.	Woodlawn avenue.	Drexel avenue.	575 00
14187	do	Fifty-second.	Lake	Drexel avenue.	1,081 00
14188	do	Forty-seventh.	Archer avenue.	Western avenue.	9,601 50
14189	do	Redfield.	Elston avenue.	McHenry.	494 50
14190	do	Fifty-third	Cottage Grove avenue.	Drexel avenue.	408 00
14901	do	Douglas avenue.	Archer avenue.	Western avenue.	1,864 00
14902	do	Drexel avenue.	Fifty-first.	Fifty-fifth.	3,800 00
14903	do	Joseph.	Archer avenue.	Hickory.	360 00
14904	do	Webster avenue.	Dominick.	North branch Chicago river.	270 00
14905	do	Hazel.	Buena avenue.	Montrose boulevard (Sulzer St.).	1,850 00
14906	do	Buffalo avenue.	Eighty-third	Ninety-second.	6,450 00
14907	do	Douglas avenue.	Western avenue.	California avenue.	2,677 50
14908	do	Lincoln avenue.	Addison avenue.	Sulzer	8,096 00
14909	do	Rosebud.	Bloomingtondale road.	Western avenue.	450 00
14910	do	Thirty-sixth.	Halsted	Laurel.	810 00
14911	do	Star avenue.	Robertson avenue.	Southern terminus.	1,839 00
14912	do	Lexington avenue.	California avenue.	Francisco	495 00
14913	do	Robertson avenue.	Ill. Cent. R. R. Co. right of way	Grace	635 50
14914	do	Hoynes avenue.	Belmont avenue.	Clybourn avenue.	2,520 00
14915	do	Harding avenue.	West Kinzie	West Chicago avenue	2,925 00
14916	do	Bosworth avenue.	Roscoe	Grace	2,700 00
14917	do	Janssen avenue.	Roscoe	Grace	3,307 50
14918	do	Roscoe.	Robey.	Southport avenue.	2,902 50
14919	do	Robey.	Addison avenue.	Grace	1,445 50
14920	do	Fiftieth.	Cottage Grove avenue.	Drexel boulevard	235 00
14921	do	Wright.	Root	Forty-third.	235 00
14922	do	Sixty-sixth	Wright	Stewart avenue.	450 00
14923	do	South Park avenue.	Fifty-fifth	Sixtieth.	2,475 00
14924	do	Sixty-fifth court.	Wright	Stewart avenue.	329 00
14925	do	Ferdinand.	Ashland avenue	Paulina	270 00
14926	do	Mather	Ogden avenue.	Wood	188 00
14927	do	Fisk	West Sixteenth.	West Eighteenth.	164 50
14928	do	Webster avenue.	Seventy-third	Seventy-fifth.	2,137 50
14929	do	Armour avenue.	Gordon	Forty-seventh.	3,105 00
14930	do	Armour avenue.	Twenty-second.	Twenty-fifth	3,015 00
14931	do	Harvard	Seventy-third	Seventy-fifth	2,047 50
14932	do	Clarence avenue.	Nellie avenue	Grace	787 50
14933	do	Washtenaw avenue.	West Sixteenth	West Twenty-second.	1,170 00
14934	do	Southport avenue.	Belmont avenue	Graceland avenue.	6,768 00
14935	do	Armour avenue.	Forty-seventh	Fifty-fifth.	7,810 00
14403	do	Tucker	Thirty-fifth	Egan avenue.	810 00
14437	do	Columbia	Milwaukee avenue	Leavitt	720 00

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14446	Water Service Pipes..	Farrell.....	Archer avenue.....	Thirty-first.....	\$ 1,462 50
14447	do	Robey.....	Archer avenue.....	Egan avenue (Thirty-ninth St.)..	3,032 50
14448	do	Seventy-first.....	Stony Island avenue.....	Oglesby avenue.....	5,412 00
12718	do	Fifty-first.....	Drexel avenue.....	East End avenue.....	4,539 00
14012	do	Larrabee.....	Fullerton avenue.....	Frederick.....	215 00
14013	do	Flournoy.....	Sacramento avenue.....	Francisco.....	587 50
14014	do	Jane.....	Hoyle avenue.....	Leavitt.....	470 00
14015	do	Alice place.....	Powell avenue.....	Western avenue.....	153 00
14016	do	Osgood.....	Clybourn avenue.....	Fullerton avenue.....	832 50
14072	do	West Polk.....	Rockwell.....	California avenue.....	1,402 50
14073	do	West Congress.....	Kedzie avenue.....	Homan avenue.....	1,035 00
14074	do	Upton.....	Western avenue.....	Milwaukee avenue.....	157 50
14075	do	Fifty-ninth.....	Halsted.....	Centre avenue.....	3,240 00
14076	do	Washington avenue.....	Ninety-first.....	Ninety-fifth.....	2,317 50
14077	do	Union place.....	West Twenty-second.....	Union avenue.....	235 00
14078	do	Thirty-seventh.....	Ashland avenue.....	Western avenue.....	2,867 00
14079	do	Oglesby avenue.....	Sixty-eighth.....	Seventy-first.....	2,970 00
14080	do	School.....	North Clark.....	Halsted.....	247 50
14081	do	Superior avenue.....	Eighty-seventh.....	Eighty-ninth.....	1,035 00
14082	do	Crawford avenue.....	West Twenty-second.....	West Twenty-third.....	12,376 00
14083	do	Mackinaw avenue.....	Eighty-ninth.....	Ninety-second.....	2,279 00
TOTAL.....					\$479,352 34

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12378	Drains.....	Cornelia.....	North Halsted.....	Lake Michigan.....	\$ 1,072 00
12379	do	Lawrence avenue.....	Sheffield avenue.....	Ashland avenue.....	2,643 75
12380	do	Fifty-fifth.....	Lake avenue.....	Cottage Grove avenue.....	2,488 75
12459	do	Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,360 00
12460	do	Hoffman avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1,220 00

12461	Drains	Bonfield	Archer avenue.	Hickory	224 00
12462	do	Ashland avenue.	Fifty-fifth	Fifty-fifth	2,478 00
12463	do	Edbrooke place.	Western avenue.	Powell avenue.	234 00
12464	do	Greenwich.	Robey	Leavitt.	666 00
12465	do	Frankfort.	Robey	Hoyle avenue.	496 00
12466	do	Redfield.	Elston avenue.	McHenry	346 50
12467	do	Wood.	Armstrong avenue	Asylum place.	578 00
12468	do	Eighteenth place.	Brown.	May.	140 00
12469	do	West Superior.	Rockwell	Washenaw avenue.	304 00
12470	do	Broad.	Archer avenue.	Thirty-first.	108 00
12471	do	Jay.	Centre.	Garfield avenue.	160 00
12562	do	Forty-fifth	Stewart avenue.	Wentworth avenue.	510 00
12503	do	Oakley avenue.	West Indiana avenue.	West Chicago avenue.	2,860 00
12504	do	Langley avenue.	Forty-fourth.	Forty-fifth.	462 50
12505	do	Sixth-fourth.	Wallace	Union.	512 00
12506	do	Fifty-fourth place.	Lake avenue.	Madison avenue.	481 00
12540	do	Sixty-seventh.	Wright.	Honore.	379 50
12541	do	Eighty-eighth.	Mackinaw avenue.	Buffalo avenue.	245 00
12542	do	Fifty-sixth	Wright	Wallace.	816 00
12543	do	Sixty-sixth.	Stewart avenue.	Sherman.	578 00
12544	do	Morgan.	Fifty-fourth	Garfield boulevard	464 00
12569	do	Calumet avenue.	Egan avenue.	Forty-seventh.	6,364 00
12570	do	Haynes court.	Archer avenue	Lyman.	176 00
12571	do	Ellis avenue.	Sixtieth.	Sixty-third.	2,242 00
12572	do	Wharton avenue.	Sixtieth	Sixty-third.	2,204 00
12573	do	Albany avenue.	Ogden avenue.	Douglas Park boulevard	738 00
12574	do	Stewart avenue.	Normal Parkway	Seventy-first	1,264 00
12575	do	Sherman.	Sixty-third.	Sixty-fifth.	544 00
12576	do	Honore.	Sixty-ninth	Seventy-second.	2,006 00
12577	do	Ellis avenue.	Fifty-fifth.	Fifty-sixth	880 00
12578	do	Jay.	Webster avenue	Fullerton avenue.	592 00
12579	do	Greenwood avenue.	Sixtieth	Sixty-third.	2,166 00
12580	do	Dickey	Sixty-ninth.	Seventy-second.	1,870 00
12581	do	Butterfield	Egan avenue.	Root.	1,136 00
12582	do	Laughton.	Hoyle avenue	California avenue.	2,457 00
12583	do	Thomas.	Western avenue.	Seymour.	160 00
12584	do	Manteno court.	Milwaukee avenue.	Southern terminus.	114 00
12585	do	Lill avenue.	North Halsted.	Lincoln avenue.	512 50
12586	do	Kedzie avenue.	Augusta	North avenue.	2,178 00
12587	do	Parnell avenue.	Twenty-ninth	Thirty-first.	198 00
12588	do	Swift place.	Wentworth avenue.	Stewart avenue.	162 00
12589	do	String.	Canalport avenue.	West Twenty-first.	128 00

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12604	Drains	Union avenue	Forty-seventh	Garfield boulevard	\$ 4,603 50
12605	do	Wallace	Egan avenue	Forty-seventh	3,132 25
12606	do	Wright	Sixty-fifth	Sixty-seventh	960 00
12607	do	Gross avenue	Loomis	Forty-seventh	1,616 00
12608	do	Dunning	Surrey court	Southport avenue	486 00
12609	do	Otto	Paulina	Wood	182 00
12610	do	Wellington	Grand boulevard	Southport avenue	1,180 00
12614	do	Lone place	Shields avenue	Vincennes avenue	559 00
12615	do	Earl	Central Park boulevard	Stewart avenue	98 00
12616	do	Drake avenue	Archer avenue	West Ohio	480 00
12617	do	Quinn	Sixty-seventh	Thirty-first	1,235 00
12618	do	Wright	North Clark	Sixty-ninth	1,440 00
12619	do	Addison avenue	Fifty-fifth	Ashland avenue	3,675 75
12620	do	Ingleside avenue	North Clark	Fifty-ninth	4,219 50
12629	do	Gehrke avenue	North Clark	Sheffield avenue	780 00
12675	do	Pearson	North Franklin	Western terminus	220 00
12676	do	Albany avenue	West Twelfth	Douglas Park boulevard	702 00
12677	do	Belmont avenue	Western avenue	North branch Chicago river	1,136 00
12678	do	West Monroe	Kedzie avenue	Central Park avenue	3,260 00
12679	do	Wolfgram	North Halsted	Racine avenue	1,140 00
12680	do	Chestnut	Wallace	Halsted	990 00
12681	do	Sixty-first	Wallace	Union	420 00
12682	do	Sixty-second	Wallace	Halsted	714 00
12683	do	Monroe avenue	Fifty-fifth	Fifty-eighth	702 00
12684	do	Park End avenue	Sixtieth	Sixty-first	448 50
12685	do	Western avenue	Egan avenue	Illinois and Michigan Canal	1,612 00
12686	do	Sobieski avenue	Asylum place	Fullerton avenue	788 00
12687	do	Berlin avenue	Western avenue	Hoeyne avenue	1,648 00
12688	do	Pleasant place	Western avenue	Leavitt	1,008 00
12689	do	Forty-second	Drexel boulevard	Oakenwald avenue	570 00
12711	do	Western avenue	West Chicago avenue	North avenue	13,690 60
12727	do	Leavitt	Asylum place	Fullerton avenue	1,400 00
12728	do	Hoeyne avenue	Asylum place	Fullerton avenue	1,000 00
12729	do	Linden avenue	Fullerton avenue	Humboldt boulevard	1,260 00
12730	do	Laurel avenue	Fullerton avenue	Humboldt boulevard	1,260 00
12740	do	Myrtle avenue	Fullerton avenue	Humboldt boulevard	1,260 00

12741	Drains	Douglas avenue.	Archer avenue.	Western avenue.	1,512 00
12768	do	California avenue.	Milwaukee avenue.	Humboldt boulevard	1,840 00
12762	do	St. Lawrence avenue.	Forty-fifth	Fifty-first.	4,797 00
12763	do	Western avenue.	Fullerton avenue.	Belmont avenue.	5,384 50
12764	do	Kenmore avenue.	Lawrence avenue.	Ainslie.	1,056 00
12779	do	Fifty-seventh.	Wentworth avenue.	Halsted.	1,008 00
12780	do	St. Hedwig's avenue.	Asylum place.	Pulaski.	402 50
12781	do	Lister avenue.	Robey.	Asylum Place.	1,620 00
12782	do	Michigan avenue.	Garfield boulevard.	Sixty-third.	14,337 00
12783	do	Wabash avenue.	Garfield boulevard.	Sixty-third.	7,024 50
12795	do	Ashland avenue.	Belmont avenue.	Sulzer.	77 40
12797	do	Forest avenue.	Fullerton avenue.	Humboldt boulevard.	1,160 00
12798	do	Thirty-eighth	Stewart avenue.	Laurel avenue.	1,472 00
12816	do	Egan avenue.	Wentworth avenue.	Halsted.	3,255 00
12834	do	Fifty-first.	Drexel boulevard.	East End avenue.	5,380 00
12849	do	Fulton.	Homan avenue.	Central Park avenue.	1,892 00
12897	do	Forestville avenue.	Forty-eighth	Fifty-first.	1,980 00
12872	do	Madison avenue	Sixtieth.	Sixty-sixth.	3,300 00
12873	do	Ellis avenue.	Egan avenue.	Forty-third.	1,480 00
12928	do	Indiana avenue.	C., B. & Q. R. R.	Forty-fifth.	6,470 75
13110	do	Hamlin avenue	North avenue.	West Twenty-sixth.	2,574 00
13171	do	Humboldt boulevard.	Douglas avenue.	Western avenue.	19,477 50
13313	do	Fifth avenue.	Wentworth avenue.	Thirty-seventh.	396 00
13318	do	Twenty-third place.	Western avenue.	Archer avenue.	1,127 50
13336	do	Wabansia avenue.	Division	Basil avenue.	882 00
13398	do	Penn.	Division	Vedder.	84 00
13339	do	Pleasant	Division	Vedder.	112 00
13340	do	Otis.	Division	Vedder.	98 00
13343	do	Harvard	Campbell avenue.	California avenue.	1,352 00
13372	do	Wright	Sixty-ninth.	Seventy-second.	1,664 00
13432	do	West Chicago avenue.	Leavitt.	Kedzie avenue.	18,038 00
13551	do	Reta.	Addison avenue.	Cornelia.	814 00
13574	do	Armitage avenue.	California avenue.	Kedzie avenue.	2,068 00
13575	do	Forty-fifth.	Wallace.	Stewart avenue.	297 00
13576	do	Erie avenue.	Eighty-seventh	Ninety-first	2,064 00
13577	do	Drexel avenue.	Sixtieth	Sixty-third.	2,572 50
13780	do	Twenty-seventh	Portland avenue.	Stewart avenue.	99 00
13829	do	Honore.	Sixty-seventh.	Sixty-ninth.	629 00
13890	do	Lill	Western avenue.	Station.	943 50
13891	do	Hamlin avenue.	Twenty-sixth.	Twenty-seventh.	955 50
13892	do	Churchill	Robey.	Leavitt.	961 00
13893	do	Montana.	Western avenue.	Station.	333 00

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
13884	Drains.....	Greenwood avenue.....	Western avenue.....	Station.....	\$ 740 00
13885	do.....	California avenue.....	Belmont avenue.....	Humboldt boulevard.....	4,248 00
13886	do.....	Calumet avenue.....	Forty-seventh.....	Fifty-first.....	3,580 00
13887	do.....	Station.....	Leavitt.....	Western avenue.....	1,290 50
13888	do.....	Washtenaw avenue.....	West Lake.....	Kinzie.....	409 50
13889	do.....	Spaulding avenue.....	Ogden avenue.....	West Twelfth.....	3,186 00
13870	do.....	West Polk.....	Rockwell.....	California avenue.....	1,221 00
13871	do.....	Lexington.....	California avenue.....	Francisco.....	444 00
13872	do.....	Lawndale avenue.....	Colorado avenue.....	Harrison.....	407 00
13873	do.....	Homer.....	Robey.....	Hoyle avenue.....	263 50
13874	do.....	West Congress.....	Kedzie avenue.....	Homan avenue.....	808 50
13897	do.....	Washtenaw avenue.....	West Sixteenth.....	West Twenty-second.....	1,942 50
13890	do.....	Turner avenue.....	West Twenty-first.....	Douglas Park boulevard.....	3,318 75
13890	do.....	Armour avenue.....	Forty-third.....	Forty-seventh.....	891 00
13893	do.....	Frank.....	Diversey avenue.....	Surf.....	412 50
13954	do.....	Linden avenue.....	Fullerton avenue.....	Humboldt boulevard.....	335 75
13955	do.....	Laurel avenue.....	Fullerton avenue.....	Humboldt boulevard.....	79 00
13956	do.....	Myrtle avenue.....	Fullerton avenue.....	Humboldt boulevard.....	316 00
13957	do.....	Douglas avenue.....	Archer avenue.....	Western avenue.....	71 00
13960	do.....	California avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	967 75
13962	do.....	St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	407 00
13963	do.....	Fifty-seventh.....	Wentworth avenue.....	Halsted.....	63 00
13971	do.....	Woodlawn avenue.....	Sixtieth to Stony Island avenue.....	Collage Grove Avenue and Sixty-seventh.....	345 20
13984	do.....	Forty-third.....	State.....	Halsted.....	1,946 75
13987	do.....	St. Louis avenue.....	West Kinzie.....	West Chicago avenue.....	2,670 00
14002	do.....	Sixty-third.....	Halsted.....	Centre avenue.....	2,368 00
14003	do.....	Armour avenue.....	Forty-seventh.....	Fifty-fifth.....	2,294 00
14004	do.....	Sixty-fifth court.....	Wright.....	Stewart avenue.....	206 00
14005	do.....	Calumet avenue.....	Thirty-seventh.....	Thirty-eighth.....	518 00
14087	do.....	Alice.....	Western avenue.....	Powell avenue.....	203 50
14088	do.....	Fillmore.....	California avenue.....	Kedzie avenue.....	1,386 00
14089	do.....	Osgood.....	Clybourn avenue.....	Fullerton avenue.....	676 50
14090	do.....	Howard.....	California avenue.....	Kedzie avenue.....	2,325 00
14091	do.....	Byron.....	California avenue.....	Humboldt boulevard.....	795 50
14092	do.....	Champlain avenue.....	Forty-seventh.....	Forty-ninth.....	1,105 50
14093	do.....	Berteau avenue.....	North Clark.....	Ashland avenue.....	573 50

14094	Drains	Cornelia	Wood	Southport avenue.	273 00
14095	do	Maud avenue.	Racine avenue.	Sheffield avenue.	434 00
14096	do	Southport avenue.	Grand avenue	144 feet North of Ernst avenue.	770 00
14097	do	Thome avenue.	North Clark.	Southport avenue.	1,406 00
14098	do	Roscoe	North Clark.	Halsted.	721 50
14099	do	Bonney avenue.	West Sixteenth.	Douglas Park boulevard.	1,572 50
14100	do	Bishop.	Fifty-fifth	Fifty-ninth.	2,430 00
14101	do	Loomis	Fifty-fifth	Halsted.	2,385 00
14102	do	Melrose.	Evanson avenue.	Halsted.	495 00
14103	do	Avers avenue.	Kinzie.	Chicago avenue.	5,912 00
14104	do	Peoria.	Fifty-fifth.	Fifty-seventh.	604 50
14105	do	Rosebud.	Bloomingtondale road.	Western avenue.	759 50
14106	do	Ernst avenue.	Clark.	Southport avenue.	1,406 00
14107	do	Wabash avenue.	Egan avenue.	Fifty-fifth.	9,856 00
14108	do	Central Park avenue.	Chicago avenue.	Central Park boulevard.	2,146 00
14109	do	East side Douglas Park boulevard.	West Twelfth	Douglas Park boulevard.	777 00
14110	do	North side Douglas Park boulevard.	Homan avenue.	Douglas Park boulevard.	1,498 50
14111	do	South side Douglas Park boulevard.	Central Park avenue.	Homan avenue.	777 00
14112	do	Rhine	Leavitt	Western avenue.	790 50
14113	do	West Polk.	California avenue	Sacramento avenue.	930 00
14114	do	Sixty-second	Stony Island avenue.	Illinois Central R. R.	652 50
14115	do	Sixty-fifth.	Wallace.	Halsted.	910 00
14116	do	Fifty-ninth.	Halsted.	Centre avenue.	3,128 50
14117	do	South Park avenue.	Fifty-fifth.	Fifty-ninth.	3,312 00
14118	do	Dearborn	Forty-third.	Forty-seventh.	726 00
14119	do	Dearborn	Forty-seventh	Fifty-fifth	1,860 00
14120	do	Moffat.	Western avenue	Rockwell.	1,165 50
14121	do	Sixty-first.	Halsted.	Centre avenue.	868 50
14122	do	Coblentz.	Robey.	Leavitt.	439 00
14123	do	Bulter.	Thirty-first.	Thirty-third.	303 50
14124	do	Fifty-fourth.	Lake avenue.	Drexel avenue.	1,332 00
14125	do	Fifty-second.	Drexel avenue.	Lake avenue.	1,155 00
14126	do	Fifty-third.	Cottage Grove avenue.	Drexel avenue.	176 00
14127	do	Forty-fourth.	Cottage Grove avenue.	Drexel boulevard.	296 00
14128	do	Oakley avenue.	Fullerton avenue	Station.	499 50
14129	do	Drexel avenue.	Fifty-first.	Fifty-fifth.	3,800 00
14130	do	Fifty-fourth	Lake avenue.	Drexel avenue.	1,844 00
14131	do	Wabash avenue.	Garfield boulevard	Sixty-third.	277 75
14132	do	Hazel	Sulzer.	Buena avenue.	852 50
14133	do	Southport avenue.	Belmont avenue.	Graceland avenue.	5,800 00
14134	do	Albany avenue.	West Twenty-second	West Twenty-sixth.	2,624 00
14135	do	Millard avenue.	Ordan avenue.	West Twelfth.	3,856 00

DEPARTMENT OF PUBLIC WORKS.

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14303	Drains	Fifty-first	Wallace	Ashtland avenue	\$ 5,024 00
14304	do	Lincoln avenue	Addison avenue	Sulzer	8,556 00
14305	do	Goodwin	Homan avenue	Central Park avenue	1,584 00
14306	do	Hamilin avenue	West Nineteenth	Ogden avenue	713 00
14306	do	Paulina	Clybourn avenue	Wrightwood avenue	231 00
14367	do	Bosworth avenue	Roscoe	Grace	2,520 00
14368	do	Upton	Western avenue	Milwaukee avenue	185 00
14369	do	Palatine	Central Park avenue	Homan avenue	1,584 00
14370	do	Armour avenue	Twenty-fifth	Twenty-sixth	203 50
14371	do	Roscoe	Robey	Southport avenue	2,085 50
14372	do	Lawndale avenue	Douglas Park boulevard	West Sixteenth	1,089 00
14373	do	Lawndale avenue	West Twelfth	Douglas Park boulevard	1,089 00
14374	do	Troy	West Twenty-second	West Twenty-sixth	2,656 00
14375	do	Millard	Robey	Racine avenue	1,763 00
14376	do	Polk	Sacramento avenue	Kedzie avenue	1,056 00
14377	do	Janssen	Roscoe	Grace	2,520 00
14378	do	Sawyer avenue	C., B. & Q. R. R.	West Twenty-second	203 50
14379	do	Kenwood place	Vincennes avenue	Grand boulevard	518 00
14380	do	Sawyer avenue	West Twelfth	Douglas Park boulevard	1,089 00
14381	do	Sacramento avenue	Twenty-fifth	Twenty-sixth	425 50
14382	do	Jane	Hoyle avenue	Leavitt	333 00
14383	do	Warren avenue	Garfield Park	Crawford avenue	1,839 00
14384	do	Bonney avenue	Ogden avenue	West Sixteenth	2,277 00
14385	do	Twenty-fifth	California avenue	Sacramento avenue	1,369 50
14386	do	Seminary avenue	Center	Maud avenue	529 50
14387	do	Thirty-sixth	Halsted	Laurel	539 00
14388	do	Turner avenue	Twenty-first	Twenty-second	264 00
14389	do	Prairie avenue	Egan avenue	Forty-second	1,404 50
14390	do	Lowe avenue	Twenty-sixth	Egan avenue	4,592 00
14391	do	Fiftieth	Drexel boulevard	Cottage Grove avenue	235 50
14392	do	Fairfield avenue	North avenue	Hirsch	1,172 50
14393	do	Lawndale avenue	C., B. & Q. R. R.	Twenty-second	330 00
14394	do	Homan avenue	Central Park boulevard	Washington boulevard	742 50
14395	do	Trumbull avenue	C., B. & Q. R. R.	West Twenty-sixth	8,088 00
14396	do	St. Louis avenue	C., B. & Q. R. R.	West Twenty-sixth	3,008 00
14401	do	Newport avenue	Sheffield avenue	Halsted	1,270 50

14498	Drains	Harding avenue	West Kinzie	West Chicago avenue	4,158 00
14448	do	Central Park avenue	West Lake	West Chicago avenue	1,702 00
14449	do	Armour avenue	Twenty-second	Twenty-fifth	2,211 00
TOTAL					\$411,971 20

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS.

No. of Warr't	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
12381	Both	Wright	Forty-fifth	Forty-ninth	\$ 1,201 15
12387	North	Sixty-first	Woodlawn avenue	Madison avenue	557 14
12397	Both	Ashkum avenue	Eighty-seventh	South Chicago avenue	330 37
12400	West	Hosmer avenue	C. & M. & St. P. R'y	North avenue	271 25
12408	Both	Summit avenue	Eighty-third	Eighty-fourth	643 81
12411	East	Jefferson avenue	Milwaukee avenue	Fullerton avenue	2,936 52
12412	Both	Aberdeen	Sheffield avenue	Evansston avenue	836 14
12419	South	Belmont avenue	C. & N.-W. R'y	Hoyle avenue	507 37
12440	Both	Seward	Canalport avenue	Lumber	277 01
12444	South	Diversey avenue	Racine avenue	Southport avenue	318 05
12473	Both	Fifty-seventh	Cottage Grove avenue	Woodlawn avenue	946 78
12475	Both	Fifty-fifth	C. & G. T. R'y	Kedzie avenue	844 80
12479	Both	Racine avenue	Center	Fullerton avenue	576 18
12480	West	Seminary avenue	Center	Maud avenue	173 22
12481	Both	Hanover	Twenty-ninth	Thirty-third	323 64
12482	Both	Twenty-ninth	Stewart avenue	Halsted	878 90
12483	Both	Saugamon	Austin avenue	290 feet North	60 96
12484	Both	Fulton	Kedzie avenue	Homan avenue	773 52
12485	Both	Fairfield avenue	Lake	C. & N.-W. R'y	158 34
12486	Both	Lexington avenue	Rockwell	California avenue	325 22
12487	Both	West Ohio	Artesian avenue	Seymour avenue	101 28
12488	Both	Albany avenue	Lake	Kinzie	510 02
12489	Both	California avenue	West Chicago avenue	West North avenue	2,119 67
12490	Both	Jefferson	West Sixteenth	West Twenty-second	642 04
12491	North	Eastman	Halsted	Hawthorne avenue	329 78
12492	East	Judson	Blackhawk	Eastman	209 40
12493	Both	Francisco	Lake	Carroll avenue	409 80
12520	West	Jefferson avenue	Armitage avenue	C. & St. P. R'y	280 49
12521	Both	Seminary avenue	Center	Fullerton avenue	369 70

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
12522	Both	Sheffield avenue.	Center	Fullerton avenue.	\$ 946 09
12523	Both	Lincoln avenue.	Belmont avenue.	Addison avenue.	98 62
12524	West	Lincoln avenue.	Belmont avenue.	Addison avenue.	1,600 84
12525	Both	Root	State	Halsted.	8,016 73
12526	Both	Ashland avenue.	Clybourn avenue.	School.	993 59
12527	Both	Belden avenue.	Halsted	Ward.	1,237 66
12528	Both	Hull.	Eugenie	Menomonee.	344 81
12529	East	Wabash avenue.	Forty-second.	Forty-third.	188 11
12743	Both	Mather	Canal	Clinton.	204 04
12835	Both	Lexington.	Francisco	Sacramento avenue.	402 56
12836	West	Cottage Grove avenue.	University place.	Egan avenue.	1,135 56
12837	Both	Twenty-seventh	Hanover.	Wallace.	638 41
12838	Both	North avenue.	California avenue.	Kedzie avenue.	608 02
12839	Both	Lincoln.	Polk.	Taylor.	113 95
12800	Both	Rockwell	West Twenty-second.	Parmalee	576 90
12801	South	Leland avenue.	Clark	Commercial avenue.	386 70
12802	Both	Currier	Augusta	Chapin	198 15
12803	Both	Curtis	Huron	May	153 50
12804	Both	Wolcott avenue.	North Fifty-ninth.	Webster avenue.	220 52
12805	Both	Wolcott avenue.	Wilson avenue.	Leland avenue.	303 80
12806	Both	Yeaton	Wood	Lincoln.	34 00
12807	South	Washington	West Ravenswood park.	Palmer	121 60
12808	East	Cypress.	Ashland avenue.	West Taylor	36 50
12809	South	South Chicago avenue.	Seventy-fifth.	Chauncy avenue.	81 04
12931	Both	Milwaukee avenue.	Fullerton avenue.	California avenue.	1,317 01
12932	Both	Nassau	Jackson.	Van Buren.	208 25
12933	Both	Seldon.	Wood	Lincoln.	60 00
12934	Both	Sheffield avenue.	Fullerton avenue.	Belmont avenue.	1,081 16
12935	Both	Shober	Division	North avenue.	432 95
12936	Both	McChesney avenue.	Sixty-fifth.	Sixty-seventh	673 33
12937	North	Wolfgram.	Southport avenue.	Perry avenue.	90 00
12938	East	Ashland avenue.	Sunnyside avenue.	Leland avenue.	409 70
12939	West	Commercial avenue	Laurence avenue	Wilson avenue.	385 54
12940	Both	Leland avenue.	C. & N.-W. R'y	Palmer avenue.	225 70
12941	Both	Collfax avenue.	Sixty-fifth.	Sixty-seventh.	397 08
12942	Both	Clinton	West Randolph.	Fulton.	256 51

12943	Both.	Evans avenue	Sixty-fifth.	Sixty-seventh.	506 99
12944	East	East Ravenswood park.	North Fifty-ninth.	Balmoral avenue.	111 20
12945	Both.	Francisco	Monroe.	Van Buren.	375 39
12946	Both.	Wilson.	Wolcott avenue.	Palmer.	122 00
12947	Both.	Albany avenue.	Kinzie	The boulevard.	246 06
12948	Both.	Harmon court.	Michigan avenue.	State.	284 00
12965	Both.	Southport avenue	Lincoln avenue.	Belmont avenue.	190 25
12966	West.	Keeney avenue.	Wabansia avenue.	North avenue	208 68
12967	Both.	Napoleon place.	Stewart avenue.	Wallace	974 63
12968	Both.	Whitehouse place.	Wentworth avenue.	Stewart avenue.	200 28
12971	Both.	Florence avenue.	Diversey avenue.	Wrightwood avenue.	476 55
12972	Both.	Oakley avenue.	Hamburg	Milwaukee	1,145 20
12973	Both.	Robey	Fullerton avenue.	Armitage avenue	1,090 95
12974	Both.	Seymour avenue	Division	North avenue.	502 80
12975	Both.	Van Horn.	Robey.	Western avenue	623 04
12976	Both.	Lafin	West Fourteenth.	West Eighteenth	1,070 31
12977	North.	West Madison.	West Forty-sixth	West Forty-eighth	857 00
12978	Both.	West Twenty-third.	Kedzie avenue.	St. Louis avenue.	861 82
12979	Both.	Aberdeen	Damen.	Taylor.	168 87
12980	Both.	Ashland avenue	Robey.	Olive.	340 92
12981	Both.	Holt.	Chicago avenue.	Augusta	292 35
12982	Both.	Hoyne avenue.	West Twenty-second.	Blue Island avenue.	96 00
12983	Both.	Lill place.	Robey.	Hoyne avenue.	105 60
12984	Both.	Canal.	West Harrison.	West Twelfth.	249 00
12985	Both.	Desplaines.	West Adams.	West Harrison.	251 40
12986	Both.	Davis.	Wabansia avenue.	North avenue.	297 62
12987	Both.	Fifty-fourth.	Cottage Grove avenue.	Drexel avenue.	334 81
12988	Both.	West Van Buren.	Ashland avenue.	Wood	416 25
12989	Both.	Wallace.	Thirty-ninth	Forty-third.	1,025 85
12990	Both.	Whipple	Colorado avenue.	Van Buren.	298 81
12991	Both.	Nellie avenue.	North Clark.	Sheffield avenue.	275 24
12992	Both.	Marianna	Racine avenue.	Southport avenue.	270 45
12993	West.	West Ravenswood park.	Leland avenue.	Lawrence avenue.	156 80
12994	West	Commercial.	Belle Plaine avenue.	Graceland avenue.	155 24
12995	Both.	Argyle.	Evanston avenue.	Sheffield avenue.	1,876 92
12998	Both.	Seminary avenue.	Fullerton avenue.	Diversey avenue.	910 66
12999	Both.	La Salle.	Archer avenue.	Twenty-sixth.	412 50
13000	Both.	Wrightwood avenue	Orchard.	Racine avenue.	637 37
13001	Both.	Montana.	Lincoln avenue.	Racine avenue.	847 32
13002	Both.	Sherman.	Fortieth	Forty-first.	829 86
13003	Both.	School.	Root	Forty-seventh.	835 70
13004	Both.	Thirty-fourth.	State	Indiana avenue.	373 15

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13005	Both	St. Lawrence avenue	Sixty-fifth	Sixty-seventh	\$ 702 36
13006	East	Byrne avenue	Woodward avenue	Diversey avenue	139 39
13007	Both	Farwell avenue	Sixty-fifth	Sixty-seventh	753 01
13008	Both	Vincennes avenue	Sixty-fifth	Sixty-seventh	736 84
13009	Both	Jackson	Fifty-fourth	Fifty-fifth	338 73
13010	Both	Wilmut	Leavitt	Armitage avenue	401 77
13011	Both	Wright	Thirty-ninth	Forty-third	738 14
13012	East	Rockwell	Parmalee	West Twenty-sixth	100 00
13013	North	North Fifty-ninth	Wright	East Ravenswood Park	180 57
13014	Both	Pine	Ashland avenue	East Ravenswood Park	733 80
13038	North	Irving Park boulevard	C. & N.-W. R'y.	St. Charles avenue	89 44
13082	Both	West Forty-first	West Madison	West Kinzie	219 24
13083	Both	Moore	Division	Elm	210 75
13084	Both	Dunning	Halsted	Racine avenue	805 97
13085	Both	Thirty-second	Laurel	Ullman	213 41
13086	Both	Desplaines	West Harrison	West Polk	330 21
13087	Both	Flournoy	Rockwell	Washtenaw avenue	540 05
13088	Both	Dudley	Chicago avenue	Division	198 00
13089	Both	Dearborn	Thirty-ninth	Root	119 60
13090	South	Forty-sixth	Grand boulevard	State	400 04
13131	Both	Sheffield avenue	Belmont avenue	Graceland avenue	1,754 57
13132	Both	Clay	Halsted	Sheffield avenue	306 25
13133	East	Evans avenue	Seventy-second	Seventy-third	119 53
13134	Both	Seminary place	Seminary avenue	Racine avenue	228 24
13135	Both	North Clark	Fullerton avenue	Wellington	1,197 28
13136	Both	Napoleon place	Stewart avenue	Wentworth avenue	414 64
13137	South	Eighty-sixth	Loomis	Carpenter	415 37
13138	Both	Aberdeen	Eighty-fifth	Eighty-ninth	606 28
13139	Both	Canal	Eighty-seventh	Nineteenth	733 16
13140	Both	Carpenter	Eighty-fourth	Eighty-ninth	531 16
13141	North	Eighty-seventh	Loomis	Throop	186 36
13142	South	Eighty-seventh	Throop	May	173 00
13143	North	Eighty-eighth	Throop	Aberdeen	106 40
13144	North	Eighty-eighth	Carpenter	Peoria	100 00
13145	Both	Gilbert place	C. & N. P. R'y.	Vincennes avenue	60 00
13146	Both	Jefferson	Vincennes road	Ninety-first	1,233 14

13147	Both.	Murray	Vincennes road.	Ninety-first.	661 05
13148	East	Stewart avenue.	Archer avenue.	Thirty-third.	145 60
13149	Both.	Union.	Vincennes road.	Ninetieth.	794 24
13150	Both.	Throop	Eighty-sixth.	Eighty-ninth.	172 69
13151	Both.	Wallace.	Eighty-seventh.	Ninetieth.	794 08
13152	East	Wabash avenue.	Sixty-second.	Sixty-third.	166 00
13153	Both.	McReynolds.	Wood.	Ashland avenue.	40 00
13154	Both.	Rice.	Robey.	Leavitt.	172 16
13155	Both.	Moorman	Paulina.	Lull.	74 88
13156	South.	Forty-seventh.	State.	Grand boulevard	135 40
13178	North.	Egan avenue.	Ellis avenue.	Cottage Grove avenue.	144 00
13179	Both.	Dudley.	North avenue.	Armitage avenue.	1,518 68
13180	Both.	Elk Grove.	North avenue.	Armitage avenue.	1,744 94
13181	Both.	Dobson.	Seventy-seventh.	Seventy-ninth.	733 88
13182	Both.	Oakley avenue.	West Division.	Wabansia avenue.	1,177 38
13183	Both.	Elston avenue.	Fullerton avenue.	Snow.	357 30
13184	Both.	West Twenty-second.	Trumbull avenue.	Lawndale avenue.	616 40
13185	North.	One Hundredth.	Avenue K.	Avenue L.	100 00
13186	Both.	Elston avenue.	Trumbull avenue.	Fullerton avenue.	1,262 15
13187	North.	Everett.	St. Charles avenue.	Alley West of Washington avenue.	173 28
13188	North.	Armitage avenue.	Columbia avenue.	Keeney avenue.	267 12
13189	North.	Fullerton avenue.	Jefferson avenue.	C., M. & St. P. R'y.	872 05
13190	North.	Prescott.	St. Charles avenue.	Park avenue.	62 40
13191	West.	Selwyn avenue.	Prescott.	Montrose boulevard.	528 00
13192	East.	Springfield avenue.	Armitage avenue.	Dickens avenue.	183 60
13193	West.	Selwyn avenue.	Prescott.	Everett.	314 65
13194	North.	Irving Park boulevard.	Selwyn avenue.	St. Charles avenue.	62 40
13195	East.	Park avenue.	Willis.	Center.	99 20
13214	North.	West Chicago avenue.	West Forty-sixth.	West Fifty-first.	234 00
13215	Both.	West Nineteenth.	Blue Island avenue.	Ashland avenue.	100 00
13216	West.	Avenue A.	Sixty-ninth.	Seventieth.	58 90
13217	West.	Drexel avenue.	Seventy-third.	Seventy-fifth.	110 18
13218	Both.	Western avenue.	North avenue.	Fullerton avenue.	666 32
13219	Both.	West Twenty-second.	Western avenue.	Trumbull avenue.	3,815 71
13220	East.	Crawford avenue.	West Taylor.	Wis. Central R'y.	63 44
13231	West.	Crawford avenue.	Armitage avenue.	C., M. & St. P. R'y.	614 97
13266	West.	Coventry.	North avenue.	Wabansia avenue.	176 51
13267	Both.	Twenty-seventh.	Stewart avenue.	Hanover.	323 88
13268	South.	Twenty-seventh.	Halsted.	Quarry.	257 25
13269	West.	Lumber.	West Eighteenth.	Union.	351 81
13270	North.	Oakwood avenue.	Drexel boulevard.	Ill. Central R'y.	85 23
13271	South.	Oakdale avenue.	North Clark.	Evanston avenue.	60 00

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13272	Both.	Deming court.	North Clark.	Lake View avenue.	\$ 382 50
13273	Both.	Seventy-ninth.	Halsted.	Western avenue.	3,032 36
13274	Both.	Forty-second.	Cottage Grove avenue.	Vincennes avenue.	338 94
13275	Both.	Roscoe.	Robey.	Western avenue.	492 48
13276	Both.	Ann.	Fulton.	Kinzie.	70 00
13277	North.	Sixty-sixth.	Stewart avenue.	Sherman.	345 06
13278	Both.	Langley avenue.	Sixty-fifth.	Sixty-seventh.	221 61
13279	Both.	Sixty-third.	Westworth avenue.	C. & W. I. R'y.	589 73
13280	Both.	Franklin avenue.	Wallace.	Thomas avenue.	278 25
13281	Both.	Centre avenue.	Eighty-fifth.	Eighty-ninth.	372 60
13282	Both.	Desplaines.	Vincennes avenue.	Ninety-first.	561 00
13283	Both.	Eighty-seventh.	Stewart avenue.	C. R. I. & P. R'y.	323 77
13284	Both.	Eighty-ninth.	C. R. I. & P. R'y.	Stewart avenue.	870 59
13285	Both.	Groveland.	C. R. I. & P. R'y.	Vincennes avenue.	667 52
13286	West.	Morgan.	Eighty-fifth.	Eighty-ninth.	459 75
13287	Both.	May.	Eighty-fifth.	Eighty-seventh.	308 76
13288	South.	Walnut.	Ashland avenue.	East Ravenswood Park.	351 40
13289	Both.	Eighty-eighth.	C. R. I. & P. R'y.	C. & W. I. R'y.	1,010 61
13290	North.	Eighty-ninth.	Morgan.	Throop.	387 60
13291	Both.	Walcott.	Lawrence avenue.	Wilson.	78 60
13292	Both.	Dean.	Brigham.	Paulina.	61 28
13293	Both.	Crystal.	Leavitt.	Eastern terminus.	144 01
13294	Both.	Paulina.	Wabansia avenue.	Armitage avenue.	1,009 00
13295	Both.	Emily.	Ashland avenue.	Wood.	132 80
13296	Both.	Davis.	North avenue.	Division.	808 67
13297	Both.	Morgan.	Eighteenth.	Twenty-second.	360 00
13298	West.	Barclay.	West Division.	Augusta.	130 16
13299	Both.	Heine.	Cleveland avenue.	West line sub-lot 17.	183 08
13300	Both.	West Ravenswood park.	Wilson avenue.	Leland avenue.	76 80
13301	Both.	Dickens avenue.	Sheridan.	Kimball avenue.	264 55
13302	East.	Ballou avenue.	Armitage avenue.	Dickens avenue.	150 06
13303	East.	Sheridan.	Humboldt avenue.	Fullerton avenue.	385 96
13304	South.	Sixty-eighth.	State.	Prairie avenue.	145 28
13305	East.	Clark.	Twelfth.	Sixteenth.	350 74
13306	Both.	Clark avenue.	Ninety-second.	Ninety-fourth.	251 65
13307	East.	Clark avenue.	Ninety-fifth.	C. R. I. & P. R'y.	61 60

13308	East			Irving Park boulevard.	Warren avenue.	32 00
13309	Both		Chase	North avenue.	Bloomingdale road.	38 40
13310	Both		Forty-second	Vincennes avenue.	St. Lawrence avenue.	48 96
13311	Both		Humboldt	Armitage avenue.	Palmer avenue.	315 00
13312	South		Englewood avenue.	Wallace.	Halsted.	90 20
13326	Both		Aberdeen	Sheffield avenue.	Evansston avenue.	609 23
13331	Both		West Jackson.	Canal.	Halsted.	2,088 05
13335	North		Rebecca.	Blue Island avenue.	Wood.	851 10
13336	Both		Archer avenue.	State	Halsted.	3,010 81
13337	Both		Nelson.	Blucher	Soul.	266 00
13499	Both		Harvard	California avenue.	Campbell avenue.	89 20
13412	Both		Vincennes avenue.	Douglas avenue.	Egan avenue.	3,885 83
13414	Both		Belmont avenue.	Western avenue.	Elston avenue.	1,846 00
13416	East		Hoyle avenue.	Noble avenue.	Clybourn avenue.	426 69
13417	North		Englewood avenue.	Stewart avenue.	School.	214 60
13418	West		Crawford avenue.	Diversey avenue.	Belmont avenue.	225 00
13420	Both		North Fifty-ninth	C. & N. W. R'y.	Walcott avenue.	172 38
13428	Both		Clybourn place.	Asland avenue	Robey.	855 66
13430	Both		Frank	Surf	Diversey avenue.	309 40
13442	Both		Groveland avenue.	Twenty-ninth.	Northern terminus.	175 80
13486	Both		Paulina.	Archer avenue.	Thirty-eighth.	6,123 57
13487	East		Crawford avenue.	Twenty-second	Thirty-third	1,888 58
13488	Both		Ontario.	Franklin.	Kingsbury	200 79
13489	Both		Ingelhart place.	Twenty-seventh.	Terminus line.	191 88
13490	South		Eighty-eighth.	Superior avenue	Mackinaw avenue.	168 00
13491	West		Ewing avenue.	Ninety-second street bridge.	Ninety-fifth.	277 58
13492	North		Fifty-fourth.	Cottage Grove avenue.	Drexel avenue.	176 66
13493	Both		Loomis	Eighty-fifth.	Eighty-seventh.	302 07
13494	Both		Logan avenue.	Eighty-seventh.	Ninetieth.	976 35
13495	Both		Elizabeth	Eighty-sixth.	Eighty-ninth	372 31
13496	Both		Clinton	Eighty-seventh.	Ninetieth.	520 88
13497	Both		Eighty-fifth	Aberdeen.	Lafin	1,088 85
13498	Both		Caroline avenue.	Eighty-fifth.	Eighty-sixth.	209 14
13499	Both		Shurtleff avenue.	One Hundred and fifteenth.	One Hundred and nineteenth	457 40
13500	North		Laurence avenue.	Indian boundary line.	Austin avenue.	889 30
13501	Both		Perry	Austin avenue.	Indian boundary line.	801 11
13502	Both		Lincn	West Eighteenth.	West Nineteenth	394 81
13503	Both		Dearborn	One Hundred and fifteenth.	One Hundred and nineteenth	943 82
13504	Both		Grant.	Austin avenue.	Indian boundary line.	904 99
13505	Both		Butler.	Twenty-fourth.	Twenty-ninth.	2,638 23
13506	East		Drexel avenue.	Fifty-fifth.	One Hundred and eighty four feet North.	68 00
13507	South		South Chicago avenue.	Seventy-first.	Seventy-fifth.	1,064 20

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Ward ^{out}	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13508	East	Hamlin avenue	West Sixteenth	Douglas Park boulevard	\$ 334 90
13509	Both	Stony Island avenue	Sixty-seventh	Sixty-eighth	404 91
13510	Both	Sixty-seventh	Ill. Cent. R. R.	Stony Island avenue	627 48
13511	South	Colorado avenue	Fortieth	Forty-first	228 76
13512	North	Hein	Sedgwick	Four hundred & seventy-five feet west of west line	154 37
13513	North	Douglas	Allen avenue	Selwyn avenue	536 12
13514	Both	Commercial avenue	Eighty-seventh	Ninety-second	280 00
13515	North	Forty-seventh	Kedzie avenue	Archer avenue	685 22
13516	North	Fillmore	Albany avenue	Sacramento avenue	100 00
13517	West	Champlain avenue	Seventy-first	Seventy-second	80 00
13518	East	Hosmer avenue	Wabansia avenue	C. M. & St. P. R'y	359 55
13519	Both	Hundred and eighteenth	State	Dearborn avenue	100 00
13520	West	Hosmer avenue	Grand avenue	C. M. & St. P. R'y	110 32
13521	Both	Sixty-first	Throop	Ashland avenue	562 65
13522	West	Francisco	Cortez	Thomas	79 37
13523	West	State	C. & E. I. R. R.	Hundred and nineteenth	215 78
13524	Both	Robey	Blue Island avenue	The river	500 00
13525	Both	Flournoy	California avenue	Francisco	76 00
13526	Both	Ninetieth	Manistee avenue	The Strand	4,793 90
13527	Both	Rice	Twenty-second	Parmalee	357 00
13528	Both	Prairie avenue	Hundred and thirty-third	Hundred and thirty-fourth	108 48
13529	Both	Irving place	Kinzie	Fulton	222 48
13530	Both	West Adams	Central Park avenue	Kedzie avenue	207 00
13532	Both	Forty-fourth	Langley avenue	Cottage Grove avenue	290 64
13535	Both	Ashland avenue	Seventy-first	Seventy-ninth	1,116 74
13554	East	Cottage Grove avenue	Bowen	Fortieth	130 25
13606	Both	Avenue L	Hundredth	Hundred and seventh	562 01
13607	Both	Wood	Archer avenue	Thirty-ninth	3,059 85
13608	Both	Vernon avenue	Thirty-seventh	Egan avenue	2,223 49
13609	Both	Desplaines	Eighty-seventh	Eighty-ninth	130 00
13610	East	Lafin	Eighty-fifth	Eighty-sixth	119 40
13611	Both	Halsted	Vincennes road	Ninetieth	632 32
13612	Both	Wentworth avenue	Hundred and fifteenth	Hundred and sixteenth	319 90
13613	Both	Halsted	Fifty-seventh	Sixty-ninth	2,808 75
13614	Both	Hundred and sixteenth	State	Halsted	1,178 45
13615	Both	Milwaukee avenue	Western avenue	California avenue	1,342 83

13616	South	Hundred and fifteenth.	State	Halsted	652 00
13617	Both	West Fifteenth.	Central Park avenue.	Lawndale avenue.	244 00
13618	South	Rebecca	Washtenaw avenue	Rockwell	19 20
13619	West	Wallace	Fifty-first.	Fifty-second.	184 63
13620	Both	Sixty-eighth.	Stony Island avenue.	Yates avenue.	3,271 50
13621	Both	Hundred and seventh.	Avenue G.	Avenue K.	144 06
13624	Both	Gross avenue.	Ninety-second.	Ninety-third.	380 37
13625	Both	Troy	Colorado avenue.	Jackson.	100 00
13626	East	Gross avenue.	Courtland avenue.	Two hundred feet south.	57 45
13627	South	Ninety-second.	Jeffrey avenue.	Rupp avenue.	100 00
13628	West	Minnehaha avenue.	Ninety-third	Ninety-fourth.	230 62
13629	West	Garvin avenue.	Ninety-second.	Ninety-third.	230 44
13630	West	Junia avenue.	Ninety-fifth.	C., R. I. & P. R'y.	61 60
13631	West	Junia avenue.	Ninety-first	Ninety-third.	266 43
13633	Both	Forty-second.	Ellis avenue.	Lake avenue.	144 40
13634	Both	Avenue H.	Hundred and sixth.	Hundred and ninth	778 19
13635	Both	Storms avenue.	Seventy-seventh.	Seventy-eighth.	270 72
13637	South	Seventy-fifth.	Railroad avenue.	Bond avenue.	292 10
13642	Both	Leland avenue.	Palmer	West Ravenswood Park	263 75
13643	Both	Sixty-third.	Halsted.	Wallace	1,246 70
13648	Both	Luella avenue	Ninety-second.	Ninety-third.	213 27
13649	North	Ninety-fifth	Junia avenue.	Garvin avenue.	631 50
13650	Both	Rupp avenue	Ninety-second.	Ninety-third	380 18
13651	Both	Cloud	Ninety-second.	Ninety-third	403 36
13652	Both	Campbell avenue.	West Polk.	West Twelfth.	333 61
13653	South	Hamburg	Hoyle avenue.	Leavitt.	170 20
13654	South	Armitage avenue.	Durham avenue.	Grand avenue.	231 77
13655	West	Evans avenue.	Seventy-second.	Seventy-third.	40 00
13656	Both	Fiftieth.	Robey.	Leavitt.	618 84
13657	Both	Fulton.	Homan avenue.	Central Park avenue.	459 79
13658	North	North avenue.	Oglesby avenue.	Ballou avenue.	149 60
13659	West	Mozart avenue.	Armitage avenue.	Palmer avenue.	216 00
13660	South	Illinois avenue.	Eighty-fifth	Ill. Cent. R'y.	392 72
13661	South	Irving Park boulevard.	Kidgeland avenue.	Two hundred and fifty feet west.	100 00
13662	North	Wade.	Elston avenue	C. & N.-W. R'y.	196 56
13663	Both	Exchange avenue.	Eighty-seventh.	Ninety-second.	963 90
13664	Both	Blackhawk avenue.	Halsted.	Hawthorn avenue.	508 63
13665	West	Ellis avenue.	Seventy-fourth.	Hundred & twenty-fth. north of Seventy-fifth	116 50
13666	East	Baxter.	School	Roscoe	100 07
13667	Both	Flournoy	Central Park avenue.	Genessee avenue.	384 78
13668	Both	Durham avenue.	Dickens avenue.	Humboldt avenue.	153 44
13669	Both	Durham avenue.	Armitage avenue.	Fullerton avenue.	360 36

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

N ^o . of W ^{ar} rd	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13670	Both.	Cross.	Colorado avenue.	Harrison.	\$ 320 57
13671	East.	Maplewood avenue.	Fullerton avenue.	Humboldt boulevard.	359 86
13672	Both.	Sheffield avenue.	North avenue.	Hawthorne avenue.	119 80
13673	Both.	Troy avenue.	West Ohio.	Boulevard.	329 29
13674	Both.	Canal.	Eighteenth.	River.	1,456 17
13675	Both.	South Chicago avenue.	South Park avenue.	Seventy-first.	538 23
13676	Both.	Seventh-second.	St. Lawrence avenue.	Champlain avenue.	110 58
13677	East.	Ingleside avenue.	Fifty-fifth.	Fifty-seventh.	375 36
13678	Both.	Weed.	Clybourn avenue.	Hawthorne avenue.	428 69
13679	Both.	Troy.	Twelfth.	Fillmore avenue.	293 83
13707	Both.	Lexington avenue.	Central Park avenue.	Genesee.	393 19
13715	Both.	Wallace.	Fifty-fifth.	Fifty-ninth.	950 57
13716	Both.	Richmond avenue.	Evergreen avenue.	Diversey avenue.	360 00
13750	Both.	Atlantic.	Thirty-ninth.	Goshen.	780 71
13751	Both.	California avenue.	North avenue.	Milwaukee avenue.	1,496 64
13752	Both.	West Congress.	California avenue.	Albany avenue.	715 49
13792	Both.	Aldine.	Egan avenue.	Northern terminus.	1,570 52
13793	Both.	Polk.	State.	Clark.	2,990 00
13794	Both.	Twenty-ninth.	South Park avenue.	State.	2,542 11
13795	Both.	Fifty-third.	Cottage Grove avenue.	Drexel avenue.	1,329 80
13796	Both.	Elmwood place.	Thirty-eighth place.	Egan avenue.	642 50
13797	Both.	Thirty-second.	State.	Cottage Grove avenue.	3,010 66
13798	Both.	Kenwood place.	Vincennes avenue.	Grand boulevard.	1,878 03
13799	North.	Forty-fourth.	Cottage Grove avenue.	Drexel boulevard.	769 78
13800	West.	Wallace.	Fifty-second.	Fifty-fifth.	574 00
13801	Both.	Twenty-eighth.	Halsted.	First alley east.	141 90
13802	West.	Huck avenue.	Lawrence avenue.	Clay avenue.	507 40
13803	Both.	Cottage Grove avenue.	Seventy-fifth.	Eighty-seventh.	3,678 71
13804	Both.	St. Lawrence avenue.	Forty-fifth.	Forty-sixth.	182 63
13805	Both.	West Van Buren.	Cross.	Central Park avenue.	179 66
13806	Both.	South Park avenue.	Sixty-first.	Sixty-seventh.	1,642 86
13807	Both.	West Harrison.	Central Park avenue.	Garfield boulevard.	397 95
13808	Both.	West Congress.	California avenue.	Rockwell.	467 86
13809	Both.	Fifty-second.	Woodlawn avenue.	Greenwood avenue.	1,852 96
13810	West.	Vincennes avenue.	Eighty-seventh.	Ninety-fifth.	911 04
13811	North.	Lawrence avenue.	Holcomb avenue.	Elston avenue.	1,679 42

13812	East	Elston avenue	Montrose boulevard	Lawrence avenue	705 38
13813	West	Elston avenue	Washington	Montrose boulevard	414 40
13814	Both	Fulton avenue	California avenue	Homer avenue	899 02
13815	Both	Centre	Montrose boulevard	Lawrence avenue	1,359 54
13816	East	Selwyn avenue	Montrose boulevard	Everett	468 74
13817	Both	Palmer avenue	Sixty-seventh	Seventy-first	1,965 79
13818	Both	Emerald avenue	Forty-second	Forty-first	833 23
13819	Both	Emerald avenue	Egan avenue	Forty-first	845 60
13820	Both	Whipple	Twenty-sixth	Twenty-eighth	273 46
13821	Both	Richmond	Humboldt boulevard	Diversey avenue	592 40
13822	Both	West Sixteenth	Halsted	Johnson	106 20
13823	South	Fiftieth court	Union avenue	Halsted	188 55
13824	Both	Ninety-eighth	Escanaba avenue	Commercial avenue	378 83
13825	South	Fifty-second	Halsted	Morgan	332 24
13826	Both	West Fifteenth	California avenue	Rockwell	319 88
13827	Both	Drexel avenue	Fifty-fifth	Fifty-ninth	1,369 89
13828	Both	Grand avenue	Chicago avenue	C., M. & St. P. R'y.	820 03
13829	Both	Rush	Erie	Chicago avenue	614 00
13830	East	Columbia avenue	Humboldt avenue	Fullerton avenue	251 00
13831	North	Grand avenue	North avenue	C., M. & St. P. R'y.	523 20
13832	Both	Addison avenue	North Clark	Lake Michigan	1,554 38
13833	Both	Avenue K	Hundred and eighth	Hundred and twelfth	511 70
13834	East	Greenwood avenue	Irving Park boulevard	Central	470 00
13835	Both	Twenty-second	Crawford avenue	Forty-sixth	1,874 11
13836	Both	St. Louis avenue	West Lake	West Kinzie	638 79
13837	Both	Wright	Sixty-fifth	Sixty-fifth court	232 56
13838	South	Fiftieth	Cook	Throop	124 50
13839	East	Selwyn	Douglas	Everett	75 00
13840	West	Fiftieth	Kinzie	Chicago avenue	424 00
13841	East	Forty-eighth	Humboldt avenue	Dickens avenue	57 73
13842	East	Vannatta avenue	Dickens avenue	Armitage avenue	246 45
13843	Both	Ridge avenue	Webber avenue	Church road	663 84
13844	Both	Hundred and fifth	Ewing avenue	Avenue E	838 40
13845	Both	Hundred and fourth	Ewing avenue	Avenue F	629 40
13846	Both	George	Halsted	May	140 25
13847	South	Crawford avenue	Everett	Milwaukee avenue	1,125 25
13848	West	Fifty-seventh	Halsted	Centre avenue	980 00
13849	Both	Irving Park boulevard	Elston avenue	Park avenue	933 00
13850	South	Irving avenue	Everett	Warner avenue	210 00
13851	East	Everett avenue	Crawford avenue	C., M. & St. P. R'y.	795 00
13852	South	Oglesby avenue	Sixtieth	Sixty-first	841 72
13853	East	Ellis park	Thirty-sixth	Thirty-seventh	367 20

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
13903	South	Augusta	Hamlin avenue.	Central Park avenue.	\$ 306 85
13904	Both	Union avenue	Egan avenue	Forty-seventh.	1,831 38
13905	South	Fifty-eighth.	Halsted	Stewart avenue.	5,520 80
13906	Both	Jay.	Centre	Fullerton avenue.	5,542 07
13926	Both	Sulzer.	Halsted	Sheffield avenue.	499 30
13949	Both	Forty-third.	Ashland avenue.	Western avenue.	2,494 13
13958	Both	Mather	Canal	Clinton.	49 68
13988	Both	Forty-seventh	Halsted.	State.	3,209 16
14052	South	Sixty-fifth court.	Stewart avenue.	Honore.	838 45
14055	Both	Sixteenth	California avenue.	Western avenue.	1,530 46
14056	North	Washington.	West Forty-second	West Forty-third.	251 06
14057	West	Kedzie avenue.	Fifty-fifth	Fifty-seventh.	401 00
14058	West	Harding avenue.	Twenty-sixth.	Thirty-first.	369 91
14061	South	Oak Grove avenue.	Clark	Racine avenue.	154 00
14062	West	North Clark.	North Fifty-ninth.	City limits.	2,173 00
14063	West	Geraldine.	Irving Park boulevard.	C. & N.-W. R'y.	940 00
14068	Both	Milwaukee avenue.	Warner avenue.	Belmont avenue.	1,000 00
14070	Both	Owasco.	Rockwell.	California avenue	470 60
14071	Both	Thirty-first.	Stewart avenue.	Halsted.	1,856 85
14124	Both	Kensington avenue.	Front.	Michigan avenue.	548 00
14125	East	Albany avenue.	West Ohio.	West Chicago avenue	470 00
14126	Both	Free.	Lawrence avenue.	Indian boundary line.	540 40
14127	West	Crawford avenue.	West Congress.	West Van Buren.	150 00
14128	Both	Elston avenue.	Montrose boulevard.	Irving avenue.	330 00
14129	Both	Courtland.	Hamlin avenue.	Irwin avenue.	380 00
14130	West	Centre avenue.	Franklin.	Lawrence avenue.	563 00
14131	West	Langley avenue.	Seventy-first.	Seventy-second.	105 00
14132	West	Ashland avenue.	Franklin.	Montrose avenue.	140 00
14133	West	Hinckley avenue.	North avenue.	Wabansia avenue.	325 00
14134	North	Armitage avenue.	Jackson.	Grand avenue.	414 00
14135	East	Irving avenue.	Willis.	Centre.	260 00
14136	Both	Armour avenue.	Egan avenue	Root.	130 05
14137	North	Franklin.	Hunting avenue.	Park avenue.	250 00
14138	Both	Hoffman avenue.	Franklin.	Evergreen avenue.	315 00
14139	West	Crawford avenue.	Bloomington road.	Courtland avenue.	237 00
14141	Both	Augusta	Western avenue	Rockwell.	290 00

14143	North	Colorado avenue	Fortieth	Forty-first	255 00
14143	Both	Douglas avenue	Washington avenue	Greenwood avenue	800 00
14144	East	Elston avenue	Division	Blackhawk	500 00
14145	West	Kimball avenue	Milwaukee avenue	Fullerton avenue	150 00
14147	West	Homan avenue	Twenty-second	Twenty-third	230 00
14148	West	West Twentieth	Rockwell	Washtenaw avenue	120 00
14149	Both	Wabansia avenue	Humboldt Park boulevard	Kedzie avenue	534 00
14150	Both	Fifteenth	Ashland avenue	Western avenue	1,270 00
14151	North	Fifty-ninth	Stewart avenue	Wallace	400 00
14152	Both	Fifty-sixth	Wallace	Centre avenue	435 00
14153	South	Sixtieth	Wallace	Wright	265 00
14154	East	Dawson avenue	Milwaukee avenue	Gardner avenue	427 00
14155	Both	Fifty-sixth	Jefferson avenue	Washington avenue	250 00
14156	Both	Fifty-eighth	Ellis avenue	Cottage Grove avenue	800 00
14157	West	Forty-eighth	Chicago avenue	Iowa	175 00
14158	Both	Lincoln avenue	Halsted	Racine avenue	165 00
14159	East	North Clark	Graceland avenue	Sulzer	1,000 00
14160	West	West Sixteenth	Johnson	Throop	470 00
14161	West	Thomas	Diversey avenue	Gardner avenue	449 00
14162	Both	Robey	Bloomington road	Clybourn avenue	290 00
14163	Both	Twenty-fourth	Kedzie avenue	St. Louis	620 00
14164	South	Belmont avenue	Hoyle avenue	C. & N. W. R'y.	725 00
14165	West	Dixon	Wabansia avenue	Bloomington road	190 00
14166	Both	Emery	Hamlin avenue	Avers avenue	175 00
14167	Both	Jefferson avenue	Fifty-sixth	Fifty-seventh	310 00
14191	Both	West Washington	West Fortieth	West Fifty-second	2,817 29
14192	Both	Eighty-third	Halsted	Vincennes avenue	892 60
14193	Both	Cottage Grove avenue	Fifty-ninth	Sixty-seventh	967 63
14195	Both	Central Park avenue	West Division	North avenue	955 12
14197	Both	West Polk	Centre	Lytle	28 80
14310	Both	Halsted	South Branch	Egan avenue	1,985 36
14320	Both	Forest avenue	Fullerton avenue	Elston avenue	1,725 00
14326	Both	Morgan	Wright	C. B. & Q. R. R.	226 80
14361	Both	Whiting	Wells	To its western terminus	472 94
14362	Both	Bonney avenue	Sixteenth	Douglas boulevard	682 36
14363	Both	Jefferson	West Madison	West Kinzie	1,164 43
14364	Both	Johnston	Wright	Sixteenth	694 35
14365	South	Morris	Wright	Wallace	158 01
14366	East	Cottage Grove avenue	Douglas avenue	Egan avenue	745 94
14367	Both	Fairfield avenue	West Twelfth	Harrison	603 82
14368	North	Nineteenth	C. R. I. & P. R'y.	C. & W. I. R'y.	636 48
14369	East	Stony Island avenue	Seventy-third	Seventh-ninth	1,114 68

STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
14270	Both.	Ontario avenue.	Eighty-ninth	South Chicago avenue.	\$ 2,025 35
14273	Both.	California avenue.	Twelfth.	Twenty-sixth.	1,157 04
14274	Both.	Market.	Van Buren.	Its southern terminus.	504 88
14275	Both.	Crawford avenue.	Madison.	Harrison.	909 72
14276	Both.	Lake.	Fifty-first.	Fifty-seventh.	3,755 49
14278	West.	Jefferson avenue.	Lawrence avenue.	Elston road.	547 17
14309	East.	McLane avenue.	Kimball avenue.	Ballou.	90 00
14310	West.	Crawford avenue.	Irving Park boulevard.	North branch Chicago river.	1,257 00
14311	South.	Belmont avenue.	Jefferson avenue.	Milwaukee avenue.	1,250 00
14312	South.	York.	Marshfield avenue.	First alley west.	69 00
14314	East.	Elston avenue.	C. & N.-W. R'y.	Division.	674 00
14315	South.	Washington.	West Ravenswood park.	Robey.	210 00
14316	Both.	Florence avenue.	Fortieth.	Forty-second.	379 56
14317	West.	Kimball avenue.	Fullerton avenue.	Diversey avenue.	150 00
14319	East.	Winston avenue.	Ninety-fifth.	Ninety-ninth.	663 00
14320	Both.	Sixty-second.	Kedzie avenue.	Grand Trunk R'y.	1,000 00
14321	Both.	Clifton Park avenue.	Douglas Park boulevard.	Ogden avenue.	1,060 00
14322	Both.	Goodspeed.	Forty eighth.	Fifty-second.	1,110 00
14323	Both.	West Twenty-first.	Hamlin avenue.	Crawford avenue.	880 00
14324	South.	Palatine avenue.	Kedzie avenue.	Grand Trunk R. R.	426 00
14325	North.	Forty-ninth.	Halsted.	Morgan.	511 00
14326	North.	Pearl.	Prospect avenue.	Wood.	295 00
14327	Both.	Emerald avenue.	Eightieth.	Eighty-first.	390 00
14328	Both.	Drexel avenue.	Sixtieth.	Sixty-first.	510 00
14404	Both.	Railroad avenue.	Garden.	California avenue.	450 00
14406	Both.	Indiana boulevard.	Ewing avenue.	Hundred and third.	960 73
14407	Both.	Carpenter.	Fifty-fifth.	Sixty-third.	696 12
14408	Both.	Morgan.	Fifty-third.	Fifty-seventh.	596 64
14413	Both.	Central Park avenue.	West Twenty-second.	Boulevard.	1,463 94
14414	Both.	Hundred and eighth.	Avenue G.	Avenue P.	700 71
14417	Both.	Seventy-fifth.	Ill. Cent. R. R. (main line).	Jeffrey avenue.	1,567 32
14429	Both.	Harvard.	Campbell avenue.	California avenue.	485 86
14439	East.	Crawford avenue.	Harvard.	Wis. Cent. R'y.	280 00
14440	South.	Lawrence avenue.	Elston avenue.	Crawford avenue.	1,485 00
Total.					\$333,844 68

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS.

No. of Warr't	No. of Lamps.	NAME OF STREET.	FROM	TO	AMOUNT.
12382	25	Sixty-fifth.	Woodlawn avenue.	Cottage Grove avenue.	\$ 731 25
12399	9	Johnson.	Wright.	West Sixteenth.	272 25
12403	26	Wood.	Fifteenth.	Blue Island avenue.	760 50
12404	11	Loomis.	Fourteenth.	Sixteenth.	332 75
12416	15	Lexington.	Rockwell.	California avenue.	453 75
12418	11	Lafin.	West Fourteenth.	West Sixteenth.	332 75
12431	12	Milwaukee avenue.	Western avenue.	California avenue.	363 00
12425	29	Grace.	Racine avenue.	Eastern terminus.	848 25
12436	6	Star avenue.	Jackson Park terrace.	Sixty-fourth.	211 75
12437	7	Forty-second place.	St. Lawrence avenue.	Vincennes avenue.	181 50
12454	3	Huron.	Kingsbury.	Western terminus.	95 75
12455	8	Sacramento avenue.	Fulton.	West Kinzie.	242 00
12645	12	Columbia place.	West Lake.	West Kinzie.	363 00
12647	7	Heine place.	Sedgwick.	Cleveland avenue.	211 75
13061	14	West Superior.	Western avenue.	Rockwell.	423 50
13062	19	Milwaukee avenue.	Fullerton avenue.	Logan square.	574 75
13063	32	West Chicago avenue.	California avenue.	Kedzie avenue.	936 00
13067	40	Fullerton avenue.	Western avenue.	Milwaukee avenue.	1,170 00
13068	23	Fullerton avenue.	Milwaukee avenue.	Kedzie avenue.	680 75
13069	30	Fullerton avenue.	Elston avenue.	Western avenue.	877 50
13070	45	West Chicago avenue.	Leavitt.	California avenue.	1,316 25
13124	12	Osgood.	Clybourn avenue.	Centre.	363 00
13161	31	Ogden avenue.	Lawndale avenue.	Crawford avenue.	906 75
13182	7	Troy.	West Twelfth.	West Thirtieth.	211 75
13183	4	Twenty-third.	Central Park avenue.	Lawndale avenue.	123 50
13164	16	Central Park avenue.	West Twenty-fourth.	West Twenty-sixth.	484 00
13166	15	West Monroe.	Homan avenue.	Central Park avenue.	453 75
13168	29	West Adams.	Kedzie avenue.	Central Park avenue.	848 25
13206	5	Wrightwood avenue.	Racine avenue.	C. & E. R'y.	151 25
13298	11	Windsor avenue.	Halsted.	Sheffield avenue.	332 75
13239	53	Union avenue.	Thirty-first.	Egan avenue.	1,521 00
13240	8	Farrell.	Hickory.	Archer avenue.	242 00
13241	11	School.	Evanston avenue.	Halsted.	332 75
13242	12	Racine avenue.	Belmont avenue.	Roscoe.	363 00
13245	6	Thirty-eighth.	Indiana avenue.	Grand boulevard.	181 50
13246	33	Lincoln avenue.	Belmont avenue.	Addison avenue.	936 00

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warrant	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
13247	13	Wilson avenue.	Sheffield avenue.	Halsted.	\$ 393 25
13248	7	Edgcomb court.	Sheffield avenue.	Evanston avenue.	211 75
13251	7	Albany avenue.	West Twelfth.	Fillmore.	211 75
13252	22	Jane.	Western avenue.	Washnetaw avenue.	655 00
13253	7	Eleventh.	Blue Island avenue.	May.	211 75
13254	7	Hampden court.	Deming court.	Wrightwood avenue.	211 75
13255	19	Ambrose.	Wood.	Hoyne avenue.	574 75
13256	8	West Congress.	Rockwell.	Washnetaw avenue.	242 00
13257	6	Dickson.	North avenue.	Wabansia avenue.	181 50
13258	30	Central Park avenue.	West Madison.	West Harrison.	877 50
13259	4	Clayton.	Morgan.	Fisk.	123 50
13260	12	Albany avenue.	West Jackson.	West Harrison.	363 00
13262	13	Oakley avenue.	West Indiana.	West Chicago avenue.	393 25
13263	5	Sacramento avenue.	West Lake.	Fulton.	151 25
13269	7	Coulter.	Robey.	Hoyne avenue.	211 75
13273	13	Sulzer.	Sheffield avenue.	Halsted.	393 25
13443	86	Wentworth avenue.	Egan avenue.	Sixty-third.	2,515 50
13451	4	Addison avenue.	Evanston avenue.	Pine Grove avenue.	123 50
13453	5	Ruble.	West Eighteenth.	Canalport avenue.	151 25
13463	12 Con.	Carroll avenue.	Kedzie avenue.	Homan avenue.	204 00
13464	6	Hull.	Eugenie.	Menominee.	181 50
13465	33	Kedzie avenue.	West Twelfth.	Ogden avenue.	965 25
13466	11	West Eighteenth place.	May.	Brown.	332 75
13467	13	St. Louis avenue.	West Kinzie.	West Lake.	380 25
13468	19	Wabansia avenue.	Milwaukee avenue.	Western avenue.	574 75
13470	44	Hamlin avenue.	Ogden avenue.	West Twenty-ninth.	594 00
13471	5	Grace.	Ashland avenue.	Paulina.	151 25
13472	6	Wabash avenue.	Forty-seventh.	Forty-eighth.	181 50
13473	5	Forty-fourth place.	Vincennes avenue.	St. Lawrence avenue.	151 25
13474	18	Lawndale avenue.	West Twenty-sixth.	West Twenty-ninth.	265 50
13477	4	Vincennes avenue.	Forty-seventh.	Forty-eighth.	123 50
13478	12	Melrose.	Halsted.	Evanston avenue.	363 00
13485	8	Fifty-ninth.	Wabash avenue.	Indiana avenue.	242 00
13538	4	East Side Rokeby.	Addison avenue.	Nellie avenue.	123 50
13544	4	Addison avenue.	Pine Grove.	Lake Michigan.	123 50
13545	6	Cornelia.	North Clark.	C. & E. Ry.	181 50

13546	6	Addison avenue.....	Halsted.....	Rokeby.....	181 50
13589	11	Portland avenue.....	Thirty-first.....	Thirty-third.....	332 75
13590	7	Burlington.....	West Sixteenth.....	West Eighteenth.....	211 75
13591	6	West Seventeenth.....	Rokeby.....	Lincoln.....	181 50
13592	7	String.....	West Twenty-first.....	Canalport avenue.....	211 75
13593	7	Washington avenue.....	Lincoln.....	Wood.....	211 75
13594	3	Edbrooke place.....	Powell avenue.....	Western avenue.....	95 75
13595	8	Clarinda.....	North Wood.....	North Ashland avenue.....	242 00
13596	16	Washtenaw avenue.....	Ogden avenue.....	West Twelfth.....	484 00
13599	6	Nelson.....	Blucher.....	Soult.....	181 50
13640	18&20 Con	Kedzie avenue.....	Central Park boulevard.....	Augusta.....	884 50
13641	11	Flournoy.....	Sacramento avenue.....	California avenue.....	332 75
13680	4	Oakley avenue.....	Laughton.....	Parmalee.....	123 00
13681	7	Laughton.....	Oakley avenue.....	Western avenue.....	211 75
13682	7	Dudley.....	Harvey.....	Asylum place.....	211 75
13683	14&12 Con	Maplewood avenue.....	Division.....	North avenue.....	627 50
13684	29	Richmond.....	Chicago avenue.....	Division.....	848 25
13685	15	Hoyle avenue.....	Armitage avenue.....	Asylum place.....	453 75
13686	25	Campbell avenue.....	North avenue.....	Armitage avenue.....	731 25
13687	8	West Superior.....	Washtenaw avenue.....	Rockwell.....	242 00
13688	10	Sixty-third.....	Lexington avenue.....	Drexel avenue.....	302 50
13689	6	Meyer avenue.....	North avenue.....	Eugenie.....	181 50
13690	10	School.....	Lincoln avenue.....	Wood.....	302 50
13691	17	Cornelia.....	Halsted.....	Lake Michigan.....	514 25
13692	7	Gordon.....	Union.....	Wright.....	211 75
13693	8	Fifth-seventh.....	Sherman.....	Wright.....	242 00
13694	6	Jane.....	Leavitt.....	Hoyle avenue.....	181 50
13695	4	Clara place.....	Powell avenue.....	Western avenue.....	128 00
13696	25	Fifty-ninth.....	Halsted.....	School.....	731 25
13754	4	Forty-second.....	Lake avenue.....	Ellis avenue.....	123 00
13756	4	Marianna.....	Racine avenue.....	Lincoln avenue.....	123 00
13761	8	Sixty-fifth.....	Union avenue.....	Wallace.....	242 00
13766	4	Sixty-fourth.....	Union avenue.....	Sherman.....	123 00
13767	5	Sixty-sixth.....	Union avenue.....	Sherman.....	151 25
13769	13	Fifty-fourth place.....	Morgan.....	Halsted.....	393 25
13770	36	Ashland avenue.....	Fiftieth.....	Garfield boulevard.....	1,053 00
13771	7	Wabansia avenue.....	Milwaukee avenue.....	Rokeby.....	211 75
13773	15	Basil avenue.....	North avenue.....	Bloomingtondale road.....	453 75
13774	3	Calumet avenue.....	Thirty-eighth.....	Thirty-ninth.....	95 75
13775	5	Clara place.....	Powell avenue.....	Perry avenue.....	161 25
13919	11	Lull place.....	Wood.....	Ellen.....	332 75
13950	13	Blanche.....	Noble.....	Ashland avenue.....	393 00

STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
14022	13	Dickey	Homan avenue	Central Park avenue	\$ 393 25
14023	7	Fisk	West Sixteenth	West Eighteenth	211 75
14024	5	Clarinda	Ashland avenue	Holt	151 25
14025	7	West Twenty-first	Western avenue	C., C. & I. C. R'y	211 75
14026	4	Mantene court	Milwaukee avenue	Southern terminus	68 00
14027	6	Frankfort	Hoyne avenue	Robey	181 50
14028	3	West Ohio	Drake	St. Louis avenue	95 75
14029	13&2 Con.	Leavitt	Webster avenue	Armitage avenue	427 25
14030	16	Millard avenue	West Twenty-sixth	West Twenty-eighth	484 00
14031	4	Sawyer avenue	West Twenty-second	C., B. & Q. R. R.	123 00
14032	3	Paulina	Otto	Roscoe	95 75
14033	20	Edgar	North avenue	Clybourn place	605 00
14034	14	West Erie	Leavitt	Western avenue	423 50
14035	12	Aldine	Evanston avenue	Lake Michigan	363 00
14036	12	High	Webster avenue	Fullerton avenue	363 00
14037	8	Lawndale avenue	Twenty-fifth	Twenty-sixth	242 00
14038	8&18 Con.	Lawndale avenue	Twenty-sixth	Thirty-first	548 00
14039	5&11 Con.	Utica	Twelfth	Fillmore	168 25
14040	8	Rosebud avenue	Wabansia avenue	Bloomington road	242 00
14041	106	Washington avenue	Forty-ninth	Fifty-ninth	8,522 00
14042	7	Heine	North avenue	Armitage avenue	790 65
14043	8	Washtenaw avenue	North avenue	Armitage avenue	819 00
14044	5	Rockwell	North avenue	Armitage avenue	781 25
14045	63	Vincennes avenue	State	Seventy-sixth	1,842 75
14046	14	Fairfield avenue	West Twelfth	Harvard	423 50
14047	32	West Twenty-second	Western avenue	California avenue	936 00
14048	8	Blucher	Wellington	Noble avenue	242 08
14049	6 & Con.	Sheridan avenue	Twelfth	Fillmore	198 50
14050	8	St. Paul avenue	Western avenue	Rosebud avenue	242 00
14051	14	South Normal roadway	Wright	C., R. I. & P. R'y	423 50
14052	15	West Polk	California avenue	Rockwell	453 75
14053	11	Forty-ninth	Woodlawn avenue	Lake avenue	332 75
14054	8	Columbia	Milwaukee avenue	Leavitt	242 00
	2,098-49	Total			\$62,401 90

STATEMENT OF ASSESSMENTS FOR ERECTING BOULEVARD LAMP POSTS.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
13422	17	Lake Park avenue.....	Thirty-first.....	Thirty-third.....	\$ 238 00
13428	63	Lake avenue.....	Egan avenue.....	Fifty-first.....	882 00
13646	23	Ellis avenue.....	Douglas avenue.....	Egan avenue.....	310 50
13670	13	Champlain avenue.....	Forty-seventh.....	Forty-ninth.....	429 00
13719	19	California avenue.....	West Twelfth.....	Ogden avenue.....	266 00
13130	4	Seventy-ninth.....	Dickey.....	Wright.....	134 50
13167	13	Colorado avenue.....	Central Park avenue.....	Douglas Park boulevard.....	429 00
13476	9	Sixty-fifth terrace.....	Ills. Cent. R. R.....	Stony Island avenue.....	297 00
13588	6	St. Lawrence avenue.....	Forty-fifth.....	Forty-sixth.....	181 50
13479	17	Wright.....	Sixty-ninth.....	Seventy-second.....	561 00
13753	5	Buena Park terrace.....	Evanston avenue.....	Hazel.....	165 00
13755	16	Indiana avenue.....	Fifty-eighth.....	Sixtieth.....	528 00
13757	21	Dickey.....	Sixty-ninth.....	Seventy-second.....	688 00
13758	4	Seventy-ninth.....	Dickey.....	Stewart avenue.....	134 00
13759	5	Union avenue.....	Sixty-sixth.....	Sixty-seventh.....	165 00
13760	3	Dickey.....	Winneconna.....	Seventy-ninth.....	104 00
13762	12	Seventy-sixth.....	Halsted.....	Wallace.....	396 00
13763	20	Sherman.....	Seventy-sixth.....	Seventy-ninth.....	660 00
13764	21	Emerald avenue.....	Seventy-sixth.....	Seventy-ninth.....	688 00
13765	18	Union.....	Seventy-sixth.....	Seventy-ninth.....	594 00
13768	15	Sixty-ninth.....	Halsted.....	Honore.....	495 00
13772	31	Sherman.....	Sixty-fourth.....	Sixty-ninth.....	992 00
14039	12	Sangamon.....	Seventy-seventh.....	Seventy-ninth.....	396 00
14040	13	Magnolia avenue.....	Bryn Mawr avenue.....	Belmont avenue.....	429 00
14041	13	Otto.....	Wood.....	Paulina.....	429 00
14049	5	Winneconna.....	Dickey.....	Stewart avenue.....	165 00
14418	29	Halsted.....	Sulzer.....	Byron.....	928 00
	427	Total.....			\$11,684 50

STATEMENT OF ASSESSMENTS FOR ERECTING GASOLINE LAMP POSTS.

No. of Warr'nt	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
12410	16	Butler.....	Thirty-sixth.	Egan avenue.	\$ 250 00
12456	7	Albany avenue.....	West Kinzie.....	Central Park boulevard.	108 50
12457	7	Trumbull avenue.....	West Ohio.....	West Huron.....	108 50
12458	6	Harding avenue.....	West Huron.....	West Chicago avenue.	96 00
12501	82	Armitage avenue.....	Kedzie avenue.....	Tripp.....	1,107 00
12667	14	Vermont avenue.....	Douglas avenue	Thirty-seventh.	210 00
12669	14	Charlton.....	Thirty-third.	Douglas avenue	210 00
12671	8	Thirty-fifth court.	Halsted.....	Laurel.....	124 00
12969	23	Lawndale avenue.....	West Kinzie.....	West Huron.....	333 50
12970	29	Kimball avenue.....	West North avenue.	Armitage avenue.	406 00
13042	28	Hirsch.....	Leavitt.....	California avenue.....	399 00
13043	11	Werder.....	Rockwell.....	California avenue.	165 00
13044	7	Iowa.....	California avenue.	Washenaw avenue..	108 50
13045	9	Jefferson court.	Western avenue.....	Perry avenue.....	139 50
13016	5	Owasco.....	California avenue.	Washenaw avenue..	80 00
13047	30	Courtland.....	Kedzie avenue.....	Central Park avenue	420 00
13048	13	McGovern.....	Humboldt boulevard.	Thomas.....	195 00
13049	27	Sheridan.....	West North avenue.	Armitage avenue.	384 75
13050	14	Nebraska.....	Armitage avenue.	Bloomingtondale road..	210 00
13051	27	Mead.....	North avenue.....	Armitage avenue.	384 75
13057	30	McLean avenue.....	Kimball avenue.....	Hamlin avenue.....	420 00
13058	23	Thompson.....	Leavitt.....	California avenue.....	333 50
13059	7	Emerald avenue.....	Centre.....	Forty-seventh.....	108 50
13064	6	Seminary avenue.....	Forty-sixth.....	Maud avenue.....	96 00
13066	26	Laurel.....	Fullerton avenue.	Diversey avenue.....	370 50
13071	21	Thirty third court.	Ashland avenue.....	Archer avenue.....	304 50
13072	10	Yorktown.....	Thirty-fourth.....	Thirty-fifth court...	150 00
13073	8	Thirty-fourth court.	Wood.....	Lincoln.....	124 00
13074	60	Thirty-fourth.	Ashland avenue.....	Western avenue.....	810 00
13075	29	Lincoln.....	Douglas avenue.....	Egan avenue.....	406 00
13076	17	Oakley avenue.....	Thirty-fourth.....	Archer avenue.....	255 00
13077	6	Leavitt.....	Thirty-fourth.....	Douglas avenue.....	96 00
13078	6	Hoynes avenue.....	Thirty-fourth.....	Douglas avenue.....	96 00
13081	32	Robey.....	Thirty-first.....	Douglas avenue.....	440 00
13125	4	Poc.....	Osgood.....	Maud avenue.....	64 00
13116	71	Armitage avenue.....	Tripp avenue.....	Robinson avenue.....	958 50

13229	61	Stewart avenue.....	Twenty-third place.....	Egan avenue.....	823 50
13437	7	Springfield avenue.....	West Huron.....	West Ohio.....	108 50
13469	18	Central Park avenue.....	West Twenty-sixth.....	West Twenty-ninth.....	265 50
13475	17	Millard avenue.....	West Twenty-sixth.....	West Twenty-ninth.....	265 00
13587	18	Argyle.....	North Clark.....	Evanston avenue.....	265 50
14242	24	Harding avenue.....	West Kinzie.....	West Huron.....	348 00
14427	95	West North.....	Kedzie avenue.....	Grand avenue.....	1,282 50
	973	Total.....			\$13,821 00

STATEMENT OF ASSESSMENTS FOR ERECTING DYOTT CHAMPION LAMPS.

No. of Warr'nt	No. of Lamps.	NAME OF STREET.	FROM	TO	AMOUNT.
12666	8	Bellevue place.....	Rush.....	Lake Shore drive.....	\$ 116 00
12668	29	Lafin.....	West Madison.....	West Harrison.....	406 00
13065	32	Central Park avenue.....	Ogden avenue.....	Douglas Park boulevard.....	432 00
	69	Total.....			\$954 00

STATEMENT OF ASSESSMENTS FOR STREET AND ALLEY OPENING AND WIDENING.

No. of Warr'nt	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12700	Opening.....	Alley.....	Lots 1, 2, 3, Block 4.....	McIntosh sub., etc.,.....	\$ 1,134 58
12701	Opening.....	Sherman.....	Fifty-ninth.....	Cleveland.....	7,530 90
12702	Opening.....	Honore.....	Seventy-second.....	Seventy-fourth.....	10,715 30
12703	Opening.....	Forty-ninth.....	Cottage Grove avenue.....	Grand boulevard.....	24,418 50
12704	Opening.....	West Van Buren.....	Homan avenue.....	Central Park avenue.....	14,007 40
12705	Opening.....	Michigan terrace.....	Fortieth.....	Forty-first.....	17,940 00
12706	Opening.....	Alley.....	Blocks 7 and 8.....	School Section addition.....	7,464 02
12707	Opening.....	Tracey avenue.....	Fifty-seventh.....	Lots 25, 16, 33 and 14.....	2,521 50
12708	Widening.....	Sheffield avenue.....	Sulzer.....	North Fifty-ninth.....	14,974 73
12814	Opening.....	West Harrison.....	Albany avenue.....	Crawford avenue.....	23,491 63
12815	Opening.....	Claremont avenue.....	West Harrison.....	Block 16, Morris and others.....	25,477 00
12886	Opening.....	Alley.....	Western avenue.....	600 feet west.....	1,598 16

STATEMENT OF ASSESSMENTS FOR STREET AND ALLEY OPENING AND WIDENING—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
12887	Opening.	Alley.	East part Block 3	Bayard & Palmer's addition.	\$ 1,857 20
12888	Opening.	Loomis.	Seventy-ninth	Eighty-third.	5,430 70
12889	Opening.	Alley.	Block 56, Canal Trustee's subdivision.	Section 7, T. 39, 14.	2,792 05
12919	Widening.	Sheffield avenue.	Sulzer.	Graceland avenue.	7,322 18
12920	Widening.	Perry avenue.	Seventy-fourth	Seventy-fifth	2,961 48
12924	Opening.	Alley.	Block 3.	Bushnell's addition.	725 40
12925	Opening & extending.	Lake View avenue.	St. James place	Fullerton avenue.	30,541 00
13232	Opening.	Aberdeen.	Sheffield avenue.	Lake Michigan.	5,373 60
13233	Opening.	Troy.	Through Block 1	Douglas Park addition.	4,558 10
13234	Opening.	Fulton.	West line of Downer & B. addition.	East line of Central Park avenue.	7,320 50
13235	Opening.	Alley.	Thirty-sixth and Thirty-seventh.	Ellis park and Vincennes avenue.	5,491 09
13236	Opening.	William avenue.	Central Park avenue.	Homan avenue.	2,369 00
13237	Opening.	Alley.	Lots 1 and 2 in Block 4.	Andersonville.	463 40
13238	Opening.	Ferdinand.	North Oakley avenue.	Diller.	2,269 00
13975	Opening.	Seventy-third	Stony Island avenue.	Jeffrey avenue.	13,371 02
13976	Opening.	Webster avenue.	Seventy-fourth.	Seventy-fifth	5,356 60
13977	Opening.	West Forty-second.	Sixteenth.	Twenty-second	9,590 25
13978	Opening.	Sheffield avenue.	North Fifty-ninth.	550 ft. north of Anderson avenue	41,823 71
14169	Opening.	Winter.	Fifty-fifth.	Fifty-sixth	8,809 00
14170	Opening.	Poplar avenue.	Twenty-ninth	Archer avenue.	11,044 60
14171	Opening.	Winter.	Fifty-ninth.	Sixty-first	12,217 30
14172	Opening.	Courtland.	Irvin avenue.	Hamlin avenue.	2,517 60
14173	Opening.	Bonaparte	Lock	Arch.	1,883 59
14174	Opening.	Monticello avenue.	Prince avenue	North avenue.	2,518 00
14175	Opening.	Flournoy.	Through w. $\frac{1}{2}$ s. $\frac{1}{2}$ n. w. $\frac{1}{4}$ s. e. $\frac{1}{4}$	Section 13, 39, 13.	3,376 17
14176	Opening.	Thomas avenue.	Milwaukee avenue.	Alley south of McGovern.	15,975 05
14177	Opening.	Van Buren.	West Forty-seventh.	West Forty-eighth.	4,082 86
14178	Opening.	Seventy-second.	Wallace	C. R. I. & P. R'y.	5,155 00
14179	Opening.	West Congress	West Forty-seventh.	West Forty-eighth.	10,758 60
14180	Opening.	Augusta.	Washenaw.	Campbell avenue	6,525 00
14181	Opening.	Alley.	In Lot 8, Block 25.	Johnston, Roberts & Starrs' add. to Chicago	1,199 65
14182	Opening.	Alley.	East part of Lots 5 to 9 of Crocker's subdivision	in Lots 1 and 2, Block 4, Ellis west addition	957 48
14183	Opening.	Emerald avenue.	Fifty-ninth.	Sixtieth.	7,087 75
14184	Opening.	Humboldt.	Rockwell.	Campbell avenue.	4,338 00
14307	Opening.	"A".	Ogden avenue.	Kendall.	13,791 90

14491	Opening.....	Ninetieth.....	Manistee avenue.....	South Chicago avenue.....	8,819 62
14492	Widening.....	St. George's court.....	Milwaukee avenue.....	State.....	1,842 80
14493	Opening.....	Emery.....	Central Park avenue.....	Grand avenue.....	3,979 80
Total.....					\$428,117 76

STATEMENT OF ASSESSMENTS FOR LAYING STONE SIDEWALKS, ETC.

No. of Warr'nt	SIDE OF STREET AND IMPROVEMENT	NAME OF STREET.	FROM	TO	AMOUNT.
12386	Both—Concrete.....	Columbia.....	Halsted.....	Lake Michigan.....	\$ 6,023 53
12396	Both—Stone.....	Woodlawn avenue.....	Lake.....	Fifty-first.....	14,700 02
12405	West—Stone.....	Yates avenue.....	Seventy-first.....	Seventy-fifth.....	5,863 68
12406	North—Stone.....	Seventy-fifth.....	Railroad avenue.....	Jeffrey avenue.....	8,358 30
12714	Both—Stone.....	St. Lawrence avenue.....	Forty-fourth.....	Forty-fifth.....	136 38
12717	Both—Stone.....	Forest avenue.....	Douglas avenue.....	Thirty-eighth.....	4,823 61
12796	Both—Concrete.....	Woodlawn avenue.....	Fifty-first.....	Fifty-fourth.....	4,606 35
12803	Both—Concrete.....	Goodwin.....	Belmont.....	Lawrence avenue.....	10,216 88
12810	Both—Cement.....	Fifty-first.....	Drexel boulevard.....	95 ft. east of east end of.....	13,903 50
13344	Both—Stone.....	Pine Grove avenue.....	Grace.....	Cornelia.....	11,205 85
13749	Both—Stone.....	Vincennes avenue.....	Forty-seventh.....	Fifty-first.....	11,110 22
13952	Both—Artificial Stone.....	Paxton avenue.....	Seventy-first.....	Seventy-third.....	877 68
14059	West—Stone.....	Oglesby avenue.....	Seventy-fourth.....	Seventy-fifth.....	1,500 00
14060	Both—Cement.....	Fifty-second.....	Woodlawn avenue.....	Drexel avenue.....	1,600 00
14064	Both—Cement.....	Jefferson avenue.....	Fiftieth.....	Fifty-fifth.....	1,420 00
14065	West—Cement.....	Woodlawn avenue.....	Fifty-third.....	Fifty-fourth.....	528 97
14066	Both—Stone.....	Luella avenue.....	Seventy-first.....	Seventy-second.....	1,525 00
14069	East—Stone.....	Jeffrey avenue.....	Seventy-first.....	Seventy-fifth.....	4,875 67
14140	Both—Stone.....	Clarkson Court.....	Washington boulevard.....	West Lake.....	1,660 00
14146	Both—Cement.....	Vernon avenue.....	Douglas avenue.....	Thirty-seventh.....	2,405 00
14271	Both—Stone.....	Van Buren.....	Michigan avenue.....	Market.....	12,063 00
14273	Both—Stone.....	South Clark.....	Van Buren.....	Polk.....	33,805 55
14277	Both—Stone.....	Forty-sixth.....	Grand boulevard.....	Drexel avenue.....	19,746 17
14308	Both—Stone.....	Hamlin avenue.....	C. & Q. R. R.....	West Twenty-sixth.....	8,710 00
14313	Both—Stone.....	Walnut.....	Kedzie avenue.....	Central Park avenue.....	5,500 00
14318	Both—Cement.....	Greenwood avenue.....	Lake avenue.....	Fifty-first.....	3,410 00
14402	North—Cement.....	Seventy-third.....	Seipp avenue.....	Jeffrey avenue.....	2,740 00
14409	Both—Stone.....	West Adams.....	Ashland avenue.....	Western avenue.....	17,337 02
14493	Both—Stone.....	Third avenue.....	Van Buren.....	Harrison.....	5,877 71

STATEMENT OF ASSESSMENTS FOR LAYING STONE SIDEWALKS, ETC.—CONTINUED.

No. of Warrant	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14434	Both—Cement.....	Lake avenue.....	Thirty-fifth.....	Oakwood avenue.....	\$ 1,639 50
14444	Both—Stone.....	Kinney avenue.....	Seventy-second.....	Seventy-third.....	1,726 00
14445	South—Stone.....	Seventy-fifth	Jeffrey avenue.....	Windsor Park and station of So. Chicago R. R.	9,023 00
		Total.....			\$238,916 59

RECAPITULATION, 1891.

Wooden Block Pavement.....	\$8,470,729 01
Sewers.....	1,951,228 54
Miscellaneous Street and Alley Improvements.....	1,897,421 77
Water Service Pipes.....	479,852 84
Plank Sidewalks	838,844 68
Drains.....	411,971 20
Opening and Widening.....	428,117 78
Stone Sidewalks.....	228,916 59
Gas Lamp Posts.....	62,401 90
Boulevard Lamp Posts.....	11,684 50
Gasoline Lamp Posts.....	18,821 00
Dyott Lamps.	954 00
Total.....	<u>\$8,790,448 20</u>

SUMMARY.

Total Assessments for Wooden Block Pavement :

North Division.....	\$ 426,098 95
South Division	1,168,192 87
West Division.....	1,881,437 19
	<u>\$8,470,729 01</u>

Total Assessments for Constructing Sewers :

North Division.....	\$ 124,008 31
South Division.....	521,288 68
West Division.....	1,805,931 60
	<u>1,951,228 54</u>

Total Assessments for Miscellaneous Street and Alley Improvements :

North Division.....	\$ 179,817 74
South Division.....	1,001,725 00
West Division.....	215,879 08
	<u>1,897,421 77</u>

Total Assessments for Laying Water Service Pipes :

North Division.....	\$ 45,106 75
South Division.....	305,000 29
West Division.....	129,245 80
	<u>479,352 84</u>

Total Assessments for Laying Plank Sidewalks :

North Division.....	\$ 53,149 09	
South Division.....	170,482 26	
West Division.....	110,218 88	
		<u>\$333,844 68</u>

Total Assessments for Street and Alley Opening
and Widening :

North Division.....	\$ 62,668 95	
South Division.....	203,804 36	
West Division.....	162,144 45	
		<u>428,117 76</u>

Total Assessments for Laying Stone Sidewalks :

North Division.....	\$ 17,229 88	
South Division.....	156,200 81	
West Division.....	55,486 90	
		<u>228,916 59</u>

Total Assessments for Erecting Gas Lamp Posts :

North Division.....	\$ 21,418 15	
South Division.....	10,919 50	
West Division.....	30,069 25	
		<u>62,401 90</u>

Total Assessments for Erecting Boulevard Lamp
Posts :

North Division.....	\$ 1,951 00	
South Division.....	9,088 50	
West Division.....	695 00	
		<u>11,684 50</u>

Total Assessments for Erecting Gasoline Lamp
Posts :

North Division.....	\$ 1,586 75	
South Division.....	4,407 50	
West Division.....	7,826 75	
		<u>13,821 00</u>

Total Assessments for Erecting Dyott Champion
Lamps :

North Division.....	\$ 116 00	
South Division.....	...	
West Division.....	838 00	
		<u>954 00</u>

Total Assessments for Laying Private Drains :

North Division.....	\$ 51,009 00	
South Division.....	175,307 45	
West Division.....	185,654 75	
		<u>411,971 20</u>
Total.....		<u><u>\$8,790,443 29</u></u>

The following list shows the total of assessments made in each year since 1861:

For the year ending April 1, 1862.....	\$ 42,635 49
For the year ending April 1, 1863.....	46,498 67
For the year ending April 1, 1864.....	339,169 31
For the year ending April 1, 1865.....	103,576 35
For the year ending April 1, 1866.....	302,574 56
For the year ending April 1, 1867.....	317,206 18
For the year ending April 1, 1868.....	1,354,436 48
For the year ending April 1, 1869.....	2,395,683 03
For the year ending April 1, 1870.....	2,896,852 48
For the year ending April 1, 1871.....	2,359,835 89
For the year ending April 1, 1872.....	62,222 25
For the year ending April 1, 1873.....	.....
For the year ending April 1, 1874.....	749,460 27
For the year ending April 1, 1875.....	723,254 42
For the nine months ending January 1, 1876.....	60,585 72
For the year ending January 1, 1877.....	1,516,081 07
For the year ending January 1, 1878.....	124,498 48
For the year ending January 1, 1879.....	284,900 45
For the year ending January 1, 1880.....	588,963 44
For the year ending January 1, 1881.....	980,895 50
For the year ending January 1, 1882.....	1,227,169 71
For the year ending January 1, 1883.....	1,395,872 98
For the year ending January 1, 1884.....	2,232,757 04
For the year ending January 1, 1885.....	2,857,905 28
For the year ending January 1, 1886.....	2,889,544 80
For the year ending January 1, 1887.....	3,307,567 99
For the year ending January 1, 1888.....	3,160,474 67
For the year ending January 1, 1889.....	3,655,956 78
For the year ending January 1, 1890.....	4,220,869 98
For the year ending January 1, 1891.....	6,987,155 48
For the year ending January 1, 1892.....	8,790,443 29
Total for thirty-one years.....	\$56,484,542 99

Respectfully submitted,

J. S. SHEAHAN,

Superintendent of Special Assessments.

: Book-keeper's Statement

BOOK-KEEPER'S STATEMENT.

CHICAGO, January 1, 1892.

HON. J. FRANK ALDRICH,
Commissioner of Public Works.

DEAR SIR:—I herewith respectfully submit statement in detail of the Receipts and Expenditures of your Department for the year 1891.

WATER FUND.

Acc't Current Rents.

Amount collected during the year for current water rents assessed.....	\$1,554,661 24
Amount collected during the year for current water rents, meter measurements.	717,068 05

Acc't Water Service Cocks.

Amount received for taps and permits, also plumbers' licenses (\$469.00)	\$ 92,726 05
Amount received for sundries	7 75
	<hr/>
	92,733 80

Acc't Meters and Private Work.

Amount received for labor and material used in laying and repairing water supply pipes for elevators and general supply of water, also for changing location of hydrants and stop-cocks and repairing meters.....	60,099 99
Carried forward.....	<hr/>
	\$2,424,563 08

Brought forward.....	\$2,424,563 08
<i>Acc't North Pump. Works.</i>	
Amount received for scrap iron, brass borings, etc..	769 82
<i>Acc't West Pump. Works.</i>	
Amount received for scrap iron, empty barrels, etc...	285 84
<i>Acc't Central Pump. Works.</i>	
Amount received for scrap iron, grate bars, etc.....	40 40
<i>Acc't Sixty-eighth street Pump. Works.</i>	
Amount received for scrap iron, etc.....	253 00
<i>Acc't Lake View Water Works.</i>	
Amount received for empty barrels	11 40
<i>Acc't Water Pipe and Special Castings.</i>	
Amount received for scrap iron, pipe and castings...	2,170 25
<i>Acc't Hydrant Wrenches.</i>	
Amount received as deposit for loan of hydrant wrenches.....	756 82
<i>Acc't Water Works Shop.</i>	
Amount received for brass borings, lead dross and scrap iron	1,615 62
<i>Miscellaneous Receipts.</i>	
Rent of Rookery lot.....	35,000 04
Carried forward.....	<u>\$2,465,466.27</u>

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$2,465,466 27
Interest on investment.....	100 00
Bonds sold	1,435,500 00
From private parties to lay water mains	182,263 80
For rent of room, City Hall	210 00
For sundries.....	310 15
	<hr/>
	<u>\$4,083,850 22</u>

EXPENDITURES.

Acc't Water Pipe Extension.

Paid for—	
Labor.....	\$ 384,559 89
Teaming	43,080 63
Car fare.....	2,166 23
Earth filling	2,739 45
Valve wells and chambers..	8,748 98
Hydrant and stop cock chambers.....	23,121 95
Tools	866 81
Stationery	283 64
Lumber	8,410 08
Hardware	597 12
Labor, pipe and material...	92,774 25
Coal.....	381 33
Repairing scales.....	17 72
Horse feed	1,579 30
Damages.....	70 21
Oil	245 56
Packing and waste.....	772 63
Advertising.....	170 50
Horse shoeing	125 26
Repairing tools	241 50
Plumbing.....	853 13
Valves and Hydrant basins.	4,575 65
Excavating and blasting....	6,595 00
Accumulator.....	495 00
Testing machine	313 00
Pump and cylinder.....	{ 487 00
	{ 387 00
Map.....	120 00
	<hr/>
Carried forward.....	\$ 384,778 82

Brought forward.....	\$ 384,778 82	
Safe	75 00	
Machine work	209 52	
Paving	4,577 11	
Livery	107 23	
Rope and blocks	96 97	
Printing.....	95 75	
Castings and pipe	629,121 73	
Blacksmith	215 34	
Brooms and brushes.....	26 10	
Slag	267 30	
Window and doors.....	11 00	
Gaskets	1,016 88	
Lead	43,216 53	
Repairing and supplies.....	584 80	
Brick	10,246 05	
Lime and cement	5,237 97	
Sand	376 74	
Rings and covers.....	4,395 68	
Nails	238 25	
Rent.....	150 00	
Refund	78 88	
Cinders	152 25	
Ice	33 50	
Sundries	2,668 88	
Charged water fund.....		\$1,287,978 28

Acc't North Pump. Works.

Salaries of engineers, firemen, and for labor.....	\$ 50,865 70	
Valves and fittings.....	539 83	
Brooms and brushes	49 49	
Coal.....	77,220 70	
Horse-shoeing	48 18	
Oil	801 42	
Electric lamps	449 84	
Packing	292 43	
Gas.....	487 80	
Soap and polish.....	194 92	
Tallow and grease	130 25	
Castings and brass fittings..	1,098 30	
Carried forward.....	\$ 132,178 86	\$1,287,978 28

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 132,178 86	\$1,287,978 28
Lumber	72 61	
Waste.....	343 96	
Rubber boots.....	11 16	
Emery paper.....	3 88	
Rope and hemp.....	122 93	
Lime	4 95	
Kettle	2 50	
Brick and clay.....	105 00	
Hardware	37 53	
Pump.....	75 00	
Paint	92 20	
Tug service.....	150 00	
Tools, handles and scoops..	13 05	
Gaskets	77 79	
Hydrant fittings.....	241 20	
Oil cups	5 40	
Sprinkling.....	417 85	
Repairing harness.....	3 50	
Lawn mower.....	6 84	
Pails, lead and glass	38 61	
Car fare.....	11 00	
Ice	52 50	
Plumbing	6 70	
Blankets	8 75	
Horse keep.....	324 57	
Cement	4 15	
Stationery	13 70	
Material and labor (shop)..<	405 79	
Sundries	33 62	
Charged water fund.....		134,865 60

Acc't Water Works Repairs.

Paid for—

Labor.....	\$ 184,804 08	
Teaming	2,306 04	
Horse keep.....	40 00	
Car fare.....	20 00	
Machine work (shop).....	4,321 10	
Brick	4,188 00	
Carried forward.....	\$ 195,679 22	\$1,422,843 88

Brought forward.....	\$ 195,679 22	\$1,422,843 88
Sewer pipe.....	209 30	
Cement	1,732 10	
Land.....	137 50	
Pipe and castings.....	4,822 66	
Lead.....	1,350 62	
Sundries.....	29 35	
	<hr/>	
Charged water fund.....		203,960 75

*Acc't Meters and Private
Work.*

Paid for—

Meters, counters, covers and fittings	\$ 21,622 38	
Rebates on deposits.....	6,938 31	
Labor	36,196 44	
Car fare.....	12 39	
Stationery and printing....	88 44	
Teaming	29 00	
Horse-shoeing	91 15	
Lumber	687 07	
Express charges.....	1 90	
Castings.....	436 71	
Wire cloth.....	24 00	
Tools	47 00	
Sawdust.....	28 00	
Horse keep.....	1,657 83	
Machine work (shop).....	3,098 39	
Decrease of stock.....	6,066 28	
Nails	23 35	
Gasoline	30	
Repairing harness.....	27 00	
Repairing wagon.....	146 20	
Valves	226 25	
Paints and oils.....	16 66	
Glass	15 00	
Packing and waste.....	159 50	
Plumbing.....	26 54	
Brooms	2 92	
Hardware	68 05	
	<hr/>	
Carried forward.....	\$ 77,737 06	\$1,626,804 63

Brought forward.....	\$ 77,737 08	\$1,826,804 63
Sundries.....	29 77	
Stamp.....	1 25	
Charged water fund.....		77,768 08

Acc't West Pump. Works.

Paid for—

Salaries of engineers, firemen, and for labor.....	\$ 43,377 70	
Car fare.....	19 33	
Coke	32 50	
Oil	1,580 69	
Packing.....	413 94	
Coal.....	53,769 94	
Hose	10 73	
Valve and fittings.....	555 28	
Soap and polish.....	102 60	
Waste.....	354 30	
Horse keep.....	5 00	
Tools.....	85 09	
Sundries	42 08	
Engine repairs and iron work	6,032 24	
Hardware	364 96	
Wheel-barrows.....	11 23	
Rubber and leather.....	16 45	
Brick, cement and clay....	620 06	
Machine work.....	150 05	
Grease and tallow.....	68 80	
Brooms and brushes.....	24 81	
Sand and gravel.....	126 51	
Castings	182 22	
Blacksmith	71 11	
Smoke consumer.....	1,500 00	
Lime.....	9 10	
Terra cotta.....	311 44	
Oatmeal	18 00	
Roofing	130 00	
Meals.....	69 10	
Testing coal.....	352 30	
Rope.....	92 94	
Carried forward.....	\$ 110,500 50	\$1,704,572 71

Brought forward.....	\$ 110,500 50	\$1,704,572 71
Lumber	1,247 97	
Glass.....	4 20	
Gaskets	893 59	
Advertising.....	5 00	
Charged water fund.....		112,651 26

Acc't Central Pump. Works.

Paid for—		
Salaries of engineers, firemen and labor.....	\$28,871 97	
Car fare.....	40 92	
Grates and bars.....	1,028 55	
Coal.....	10,193 19	
Lumber ...	111 47	
Packing	92 95	
Hose and coupling	86 43	
Waste	350 04	
Sawdust and sand.....	40 50	
Valves and fittings.....	172 08	
Oil.....	769 56	
Soap, polish and boiler com- pound	157 39	
Gaskets	53 94	
Globes.....	8 00	
Cement	6 00	
Stone	15 25	
Gas fittings and pipe.....	253 24	
Gas	400 00	
Rubber	13 03	
Engine supplies	23 63	
Paint	65 49	
Rope	1 60	
Brooms and brushes	53 20	
Hardware	95 78	
Coke	12 00	
Engine, on account.....	36,753 50	
Real estate.....	1,559 91	
Iron work.....	318 72	
Brick	84 80	
Glass.....	33 17	
Carried forward.....	\$ 81,066 36	\$1,817,223 97

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 81,066 36	\$1,817,223 97
Tools	2 20	
Machine work.....	50 88	
Drugs.....	50 00	
Blacksmith	54 15	
Advertising.....	2 50	
Ice	19 85	
Blue prints	17 50	
Lime	16 50	
Sundries	96 30	
Charged water fund.....		81,976 24

*Acc't Sixty-eighth street
Pump. Works.*

Paid for—

Salaries of engineers, firemen and labor.....	\$39,197 45	
Iron bars.....	30 41	
Gaskets	48 90	
Tubes.....	1 80	
Brooms and brushes.....	60 00	
Polish, soap and matches...	326 10	
Coal	25,224 40	
Waste.....	381 10	
Sewer pipe.....	10 65	
Oil	4,660 21	
Packing	398 52	
Stable supplies.....	28 90	
Pump, on account	19,678 87	
Testing pump.....	1,818 70	
Lamps	256 25	
Tug service.....	27 00	
Hose	37 00	
Boiler and engine repairs...	3,709 61	
Horse feed	40 57	
Grease.....	36 88	
Buggy repairs.....	5 55	
Sand	2 50	
Brick and clay.....	18 25	
Locating crib	153 00	
Carried forward.....	\$ 96,152 62	\$1,899,200 21

Brought forward.....	\$	96,152 62	\$1,899,200 21
Valves and fittings.....		120 50	
Advertising		25 10	
Repairing scales.....		15 00	
Teaming.....		13 50	
Labor.....		49 78	
Lime and cement.....		19 45	
Blue prints		3 00	
Stationery		15 50	
Car fare.....		10 00	
Hardware		62 82	
Rope		27 45	
Repairing house.....		242 11	
Specifications.....		10 80	
Ice		47 00	
Lumber		55 68	
Paint		18 97	
Castings		440 33	
Sundries.....		283 82	
Plumbing.....		380 00	
Charged water fund.....			97,993 43

*Acc't Lake View Pump.**Works:*

Paid for—

Salaries of engineers, fire-			
men and others.....	\$	12,045 93	
Pails, soap and polish.....		68 53	
Coal.....		10,756 71	
Rubber boots.....		22 32	
Paint.....		15 55	
Oil.....		524 80	
Packing.....		78 15	
Brooms and Brushes.....		9 95	
Engine and boiler repairs...		380 95	
Valves and fittings....		344 44	
Engine supplies.....		188 99	
Shop material.....		240 38	
Inlet pipe.....		2,009 96	
Laying pipe.....		1,807 31	
Carried forward.....	\$	28,493 97	\$1,997,193 64

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$	28,493 97	\$1,997,193 64
Rubber.....		19 10	
Gaskets.....		49 56	
Waste.....		48 35	
Hose and couplings.....		61 90	
Diver.....		165 70	
Lamp and chimneys.....		3 75	
Tug service.....		423 00	
Castings.....		193 69	
Masonry.....		121 45	
Hardware.....		31 84	
Pump.....		200 00	
Desk.....		85 00	
Sundries.....		399 79	
Lead.....		689 22	
Pipe and special castings...		2,769 57	
Charged water fund.....			33,755 89

*Acc't Washington Heights
Pump.*

Paid for—

Salaries of engineer and fire- man.....	\$	1,573 93	
Coal.....		870 56	
Oil.....		13 44	
Valves.....		1 21	
Express charges.....		79	
Boiler, compound soap and polish.....		62 50	
Engine supplies.....		11 35	
Sand and brick.....		7 33	
Boiler work.....		128 65	
Packing.....		10 02	
Hardware.....		13 42	
Castings.....		2 89	
Sundries.....		7 25	
Charged water fund.....			2,703 94
Carried forward.....			\$2,033,653 47

Brought forward

\$2,033,653 47

*Acc't South Side Pump.
Works.*

Paid for—

Labor.....	\$ 33,193 45	
Coal.....	590 52	
Roofing.....	19,955 00	
Floor.....	3,231 00	
Building.....	3,400 00	
Blue prints.....	4 66	
Inspecting material.....	228 13	
Engine and boilers (on acc't)	93,105 05	
Boiler work.....	573 31	
Advertising.....	42 75	
Masonry.....	6,744 95	
Oak bars for windows.....	45 00	
Nails.....	31 64	
Engine supplies.....	455 50	
Plumbing.....	856 72	
Turn-table.....	240 00	
Rails.....	156 40	
Coal cars.....	340 00	
Stone.....	1,408 65	
Instrument.....	7 35	
Typewriting.....	1 20	
Castings.....	6,006 07	
Valves.....	9 27	
Rope.....	15 65	
Pumping post.....	80 00	
Packing.....	51 46	
Lamps.....	696 76	
Oil.....	79 33	
Glazing and glass.....	530 75	
Lumber.....	1,200 59	
Hardware.....	133 51	
Lightning rods.....	209 75	
Sewer and catch-basin.....	1,694 75	
Gas fittings.....	1,756 29	
Iron beams.....	721 07	
Laying pipe.....	636 36	
Carried forward	\$ 178,432 89	\$2,033,653 47

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 178,432 89	\$2,033,653 47
Labor and material.....	805 93	
Cement floor.....	3,702 07	
Car fare.....	5 00	
Ladder.....	9 00	
Screens.....	182 60	
Tools.....	32 50	
Scale.....	697 53	
Bolts.....	69 00	
Brick.....	433 00	
Furniture.....	112 00	
Steam heating.....	1,785 00	
Brooms and brushes.....	22 36	
Waste.....	42 26	
Lime.....	102 50	
Coping.....	72 28	
Door frames.....	38 50	
Stationery.....	25 94	
Paint.....	77 92	
Sand.....	237 00	
Gas.....	164 80	
Sundries.....	76 93	
Charged water fund....		187,127 01

Acc't New Lake Tunnel.

Paid for—

Contractor.....	\$ 283,214 64	
Coal.....	106 00	
Labor, engineers, draughts- men, inspectors and rod- men,.....	26,288 11	
Candles and toweling.....	16 83	
Oil and turpentine.....	13 85	
Meals and board.....	513 72	
Paint.....	5 36	
Pipe and fittings.....	107 27	
Stationery.....	204 27	
Sand pump.....	6 00	
Hardware.....	24 40	
Labor and supplies.....	14 00	
Carried forward.....	\$ 310,514 45	\$2,220,780 48

Brought forward.....	\$ 310,514 45	\$2,220,780 48
Safe	100 00	
Storage	20 00	
Rubber boots.....	3 89	
Damages	985 35	
Soap.....	88	
Blue prints.....	38 48	
Car fare.....	5 00	
Waste and packing.....	30 23	
Sundries	72 50	
	<hr/>	
Charged water fund.....		311,770 78
<i>Acc't New Lake Tunnel Crib.</i>		
Paid for--		
Contractor.....	\$ 36,732 89	
Sundries	3 85	
	<hr/>	
Charged water fund.....		36,736 74
<i>Acc't New Land Tunnel...</i>		
Paid for—		
Contractor.....	\$ 500 00	
	<hr/>	
Charged water fund.....		500 00
<i>Acc't Lake View Water Tunnel.</i>		
Paid for—		
Labor	\$ 12,616 82	
Coal.....	167 85	
Gaskets	16 95	
Contractor	138,487 23	
Rope	1 10	
Blue prints	37 84	
Lumber	150 56	
Nails	7 13	
Steam fittings	22 25	
Railroad tickets.....	8 07	
Labor and material....	620 26	
	<hr/>	
Carried forward.....	\$ 152,136 06	\$2,569,788 00

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 152,136 06	\$2,569,788 00
Use of pile driver	305 00	
Use of tug	21 00	
Stationery.....	19 50	
Boat.....	50 00	
Hardware.....	4 20	
Paint	1 50	
Valves.....	2 39	
Sundries	35 78	
Charged water fund.....		152,575 43

Acc't Water Service Cocks.

Paid for—

Labor	\$ 51,445 99	
Car fare.....	438 57	
Oil.....	3 50	
Valve and fittings.....	529 35	
Plumbing.....	7 00	
Gauge.....	10 75	
Printing and advertising....	90 00	
Drills	881 20	
Tapes and chain.....	87 34	
Stationery	90 75	
Ferrules.....	7,725 65	
Labor.....	155 35	
Horse-keep (stable).....	1,295 16	
Gaskets.....	15 60	
Service cocks.....	1,635 22	
Feed yokes.....	36 00	
Castings... ..	69 00	
Decrease of stock	13 27	
Labor and material (shop)..	311 68	
Sundries.....	5 00	
Charged water fund.....		64,846 33

Acc't Water Miss. Expense.

Paid for—

Sundry expenditures.....	\$ 5,304 34	
Charged water fund.....		5,304 34
Carried forward.....		\$2,792,514 15

Brought forward..... \$2,792,514 15

Acc't Water Office Expense.

Paid for—

Car fare	\$	1,903 85	
Stationery		1,824 72	
Drawing material		76 85	
Keys		12 00	
Printing		1,056 90	
Matches and candles		42 90	
Tape-lines		66 00	
Postage		758 47	
Washing		16 40	
Express charges		27 85	
Gas		41 90	
Binding		232 35	
Typewriting machine		110 50	
Steam fixtures		185 64	
Harness		16 00	
Furniture		143 60	
Advertising		555 90	
Night watchman		226 66	
Tools		143 27	
Rent		1,680 70	
Horse keep		51 60	
Coal (Town of Lake)		90 00	
Horse-shoeing		9 00	
Cleaning office		69 22	
Atlas		201 85	
Stamp and pad		57 85	
Wire railing		6 00	
Hardware		21 28	
Coin-holder		12 50	
Refund of permits		220 30	
Blue prints		1 96	
Office repairs (Town of Lake)		288 71	
Gaskets		9 00	
Directory		6 00	
Moving safe		20 00	
Window shades		23 00	
Calcimining		51 25	
Carried forward	\$	10,266 98	\$2,792,514 15

BOOK-KEEPER'S STATEMENT.

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. Brought forward.....	\$ 10,266 98	\$2,792,514 15
Map (Town of Lake).....	50 00	
Sundries.....	1,321 69	
	<hr/>	
Charged water fund.....		11,638 07

Acc't Water Fund Proportion of Commissioner's Office Expense and Salaries.

Paid—

Salaries of Commissioner, secretary, book-keeper and others.....	\$ 6,438 70	
Car fare.....	239 15	
Annual Report, on account.	1,000 00	
Stationery and books.....	2,422 65	
Stamp, twine and binding..	89 00	
Five city directories.....	15 00	
Printing and map.....	118 69	
Sundries.....	1,436 78	
	<hr/>	
Charged water fund.....		11,759 97

Acc't New North Shore Inlet Extension.

Paid for—

Contractor	\$ 88,426 55	
Labor	8,354 12	
Lumber	2 30	
Tug service.....	66 00	
Printing and advertising....	40 90	
Blue prints	4 40	
Stationery and printing	72 52	
Hardware	4 13	
Labor and material (shop)..	6 33	
Sundries	8 77	
	<hr/>	
Charged water fund.....		96,986 02
Carried forward.....		\$2,912,898 81

Brought forward.....		\$2,912,898 81
<i>Acc't Water Office Salaries.</i>		
Paid for—		
Collecting water rents as-		
sessed, inspectors, assess-		
ors and draughtsman....	\$ 227,372 40	
	<hr/>	
Charged water fund		227,372 40
<i>Acc't Lake Tunnel Crib.</i>		
Paid for—		
Crib-keeper's salary and labor	\$ 3,579 40	
Hardware	67 12	
Lumber	192 52	
Packing, wicks and soap....	73 56	
Steam fittings.....	32 13	
Blankets and mattress.....	8 50	
Shears	12 60	
Oil and paints	99 42	
Rubber boots.....	8 75	
Meals and board	500 25	
Tug service.....	2,859 67	
Advertising.....	10 00	
Roofing	159 31	
Labor and material (shop)..	57 10	
Brooms	1 75	
Labor and material.....	205 28	
Coal.....	401 09	
Boat.....	125 00	
Lime, rope and candles	10 65	
Waste and cement.....	11 01	
Valves and fittings.....	17 65	
Nails	2 55	
Sundries	185 06	
	<hr/>	
Charged water fund		8,120 46
<i>Acc't Ashland avenue Tunnel.</i>		
Paid—		
Contractor	\$ 14,888 67	
Inspection.....	845 03	
	<hr/>	
Charged water fund.....		15,733 70
	<hr/>	
Carried forward.....		\$3,164,125 37

Brought forward.....		\$3,164,125 37	
<i>Acc't Jefferson Street Tunnel.</i>			
Paid—			
Contractor	\$	15,271 37	
Inspection.....		680 55	
Advertising.....		11 00	
Hardware		5 25	
		<hr/>	
Charged water fund			15,968 17
<i>Acc't Sixty-eighth street Pumping Works Extension.</i>			
Paid for—			
Locating crib	\$	153 00	
Advertising.....		12 50	
Blue prints		3 89	
		<hr/>	
Charged water fund.....			169 39
<i>Other Expenditures.</i>			
Paid—			
Water loan interest.....	\$	326,297 05	
Repairs on city buildings,			
Michigan avenue....		254 65	
Deposit for hydrant wrenches			
refunded		350 00	
Money advanced and re-			
funded		35,208 19	
Certificate of indebtedness..		350 00	
		<hr/>	
			362,459 89
		<hr/>	
			\$3,542,722 82

SEWER FUND.

RECEIPTS.

Amount received for drain		
permits	\$	94,679 35
Amount received for drain		
layers' license.....		1,429 75
Appropriated by City Coun-		
cil for cleaning sewers and		
catch-basins		105,000 00
		<hr/>
Carried forward.....	\$	201,109 10

Brought forward.....	\$ 201,109 10
Repairing sewers and catch-basins.....	20,000 00
For building wing sewers and catch-basins.....	70,000 00
Sewerage sinking fund.....	500 00
River improvement sinking fund.....	500 00
Sewerage office salaries....	29,000 00
Sewerage proportional salaries and office expense...	9,813 33
Amount advanced from private parties for construction sewers.....	16,195 27
Amount received from private parties for labor and material.....	2,251 03
For refunding money advanced by private parties.	10,951 50
Deficiency in collection of taxes appropriated by City Council	2,615 27
Received for special assessment inspection from Comptroller	47,366 70
Received from sundry parties	303 66
Received from Comptroller for catch-basins by special assessment.....	9,672 80
Total receipts.....	\$ 420,278 66

EXPENDITURES.

Acc't Sewers North Division.

Paid for—	
Labor.....	\$ 3,357 00
Horse keep.....	216 00
Repairing sleigh.....	12 00
Repairing	70 75
Cement	2 20
Carried forward.....	\$ 3,657 95

Brought forward.....	\$	3,657 95	
Sewer pipe.....		37 49	
Proportion office expense..		76 60	
Sewer teaming.....		220 50	
Catch-basins.....		2,390 70	
Sewers built by private parties.....		9,677 36	
Sundries		10 00	
		<hr/>	
Charged sewerage fund....	\$		16,070 60

Acc't Sewers South Division.

Paid for—

Labor	\$	8,975 50	
Horse keep.....		450 00	
Constructing sewers.....		1,471 00	
Sewer brick and cement....		252 65	
Car fare.....		20 00	
Mason work.....		32 50	
Labor and material.....		11 75	
Repairs		30 00	
Plumbing.....		10 00	
Lumber		142 80	
Setting junctions.....		80 00	
Sand.....		14 00	
Sewer teaming.....		909 00	
Sewer pipe.....		883 28	
Catch-basins.....		8,276 12	
Proportion of office expense		152 80	
Sewers built by private parties.....		3,197 75	
Sundries		70 00	
		<hr/>	
Charged sewerage fund....			24,979 15

Acc't Sewers, West Division.

Paid for—

Labor	\$	18,902 86	
Stubs		5 00	
Constructing sewers (con't).		8,918 10	
		<hr/>	
Carried forward.....	\$	27,825 96	\$ 41,049 75

Brought forward.....	\$	27,825 96	\$	41,049 75
Plumbing.....		93 22		
Stationery.....		14 75		
Rod extension.....		3 50		
Sewer brick.....		429 48		
Sewer sand.....		64 00		
Sewer cement.....		350 17		
Sewer pipe.....		2,584 97		
Sewer teaming.....		1,480 92		
Wooden covers used.....		96 00		
Iron covers used.....		15 00		
Proportion of office expense		229 20		
Catch-basins.....		11,806 38		
Sewers built by private parties		11,279 49		
Sundries.....		49 25		
Charged sewerage fund.....				56,322 29

Acc't House Drains.

Paid for—

Labor.....	\$	59,290 77		
Stationery, books and printing.....		773 63		
Building sewer stubs.....		85 00		
Plumbing.....		109 51		
Paving.....		39 99		
Relaying drains.....		191 55		
Advertising.....		10 00		
Repairing pipe.....		32 22		
Tape lines.....		33 90		
Teaming.....		712 23		
Car fare.....		1,414 71		
Stamps.....		11 76		
Atlas.....		120 00		
Hardware.....		74 40		
Buggy.....		66 67		
Livery.....		17 63		
Pipe and cement.....		22 30		
Proportion of office expense.		1,209 30		
Carried forward.....	\$	64,215 57	\$	97,372 04

Brought forward.....	\$ 64,215 57	\$ 97,372 04
Depreciation of stock.....	106 35	
Sundries	909 25	
	<hr/>	
Charged sewerage fund.....		65,231 17

*Acc't Cleaning Sewers and
Catch-basins.*

Paid for—

Labor.....	\$ 98,166 77	
Repairing tools	76 21	
Coal and kindling	2,759 21	
Repairing sewers.....	1,806 00	
Soap and candles.....	107 30	
Polish.....	8 75	
Oil	101 48	
Valves and fittings.....	12 81	
Rent of steam pump.....	394 65	
Packing, waste and hemp...	69 30	
Pipe and nails	4 30	
Brick	10 00	
Brooms and brushes.....	23 29	
Medical attendance.....	59 85	
Lumber	33 92	
Rent.....	130 00	
Repairs and pumping.....	96 75	
Dumpings	181 40	
Iron work	182 82	
Grease.....	15 40	
Stationery.....	9 60	
Plumbing.....	8 47	
Boarding men	15 40	
Depreciation of stock.....	531 74	
Teaming	18,777 52	
Sundries.....	19 50	
Horse keep....	18 00	
	<hr/>	
Charged sewerage fund		123,620 44

*Acc't Repairing Sewers and
Catch-basins.*

Paid for—

Labor	\$ 15,649 78	
	<hr/>	
Carried forward.....	\$ 15,649 78	\$ 286,223 65

Brought forward.....	\$ 15,649 78	\$ 286,223 65
Earth filling	212 45	
Repairing tools	360 90	
Medical attendance.....	92 90	
Repairing sewers.....	856 75	
Lumber	39 80	
Candles	30 00	
Teaming	3,870 85	
Plumbing	110 74	
Repairing wagon	8 00	
Dredging.....	1,026 15	
Iron-work	89 94	
Coal.....	12 00	
Use of tug.....	98 00	
Use of pump.....	375 25	
Labor and material.....	2,659 56	
Rent of yard.....	33 34	
Brick	1,063 57	
Sand and cement.....	659 05	
Pipe	1,471 07	
Wooden covers	1,090 35	
Iron covers.....	899 00	
Depreciation of stock.....	159 52	
Charged sewerage fund		30,868 97

Acc't Sewerage Office Salaries.

Paid for—		
Salaries of employes	\$ 28,417 05	
Charged sewerage fund.....		28,417 05

Acc't Catch-basins.

Paid for—		
Labor.....	\$ 16,553 12	
Repairing tools	131 15	
Coal and lumber.....	20 00	
Blasting.....	498 00	
Iron-work	7 90	
Brick	5,560 72	
Sand	234 00	
Carried forward.....	\$ 23,901 28	\$ 345,507 67

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 23,901 28	\$ 345,509 67.
Cement	1,951 55	
Pipe	2,811 42	
Wooden covers	2,342 00	
Iron covers	1,250 00	
Teaming	2,041 42	
	<hr/>	
	\$ 32,901 28	
Deduct amount distributed to sewers, North, South and West Divisions	22,473 20	
	<hr/>	
Charged sewerage fund....		10,428 08

Acc't Intersections.

Paid for—

Labor	\$ 32,548 31	
Brick	9,803 15	
Sand	440 00	
Cement	4,997 12	
Pipe	972 72	
Wooden covers	4,115 76	
Iron covers	9,865 20	
Teaming	3,220 95	
Depreciation of stock	265 87	
	<hr/>	
Charged sewerage fund.....		66,229 08

*Acc't Sewerage Fund's Proportion
of Commissioner's Office
Expenses and Salaries.*

Paid for—

One-third salary of Commissioner, secretary, book-keeper and others	\$ 6,648 81	
Car fare	200 83	
Livery	5 00	
Postage	3 00	
Annual report (on account) ..	1,000 00	
Printing	1,380 60	
	<hr/>	
Carried forward. ...	\$ 9,238 24	\$ 422,166 83

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$ 9,238 24	\$ 422,166 83
Stationery and binding....	624 30	
Sundries	226 29	
	<hr/>	
Charged sewerage fund.....		10,088 83

*Other Expenditures from
Sewerage Fund.*

Paid—

River improvement sinking fund	\$ 500 00	
Sewerage sinking fund.....	500 00	
Material on hand.....	11,391 35	
Increase of stock.....	1,000 00	
Sixty-ninth st. pump. works.	3,999 65	
Sewer, private work.....	500 00	
Salaries for inspectors (special assessment work).	57,435 47	
	<hr/>	
Charge sewerage fund.....		75,326 47
Money advanced and re- funded		24,438 87
		<hr/>
Total expenditures		<u>\$ 532,017 50</u>

APPROPRIATION FUND.

RECEIPTS.

Acc't Improved Streets.

Amount appropriated by City Council.....	\$ 430,000 00
Paving and inspection.....	14,519 68
Health Department.....	4,909 75
Stone sold.....	35 00
Removing obstructions.....	34 00
Error in pay roll.....	23 31
Miscellaneous.....	309 23
Board of education.....	352 75
Fire Department.....	327 50
South side pound.....	75 09
	<hr/>
Carried forward.....	\$ 450,577 31

Brought forward.....	\$ 450,577 31	
Electric Light Department..	1,270 91	
Dolese & Shepard.....	59 50	
Repairing.....	2,927 74	
	<hr/>	\$ 454,844 46

Acc't Unimproved Streets.

Amount appropriated by Council	\$ 235,000 00	
Refund.....	3 00	
	<hr/>	235,003 00

Acc't Street Permits.

Received charges on permits to occupy streets.....	\$ 9,067 25	
Received charges on permits to open streets (repairing)	13,575 21	
Received for scale permits..	77 00	
Received for vault permits..	30 00	
	<hr/>	\$ 22,749 46
Deduct amount received by transfer from permit depositors' accounts.....	22,641 46	
	<hr/>	108 00

Acc't Permit Depositors.

Received deposits for permits to use or occupy streets for building purposes....	\$ 14,405 00	
Received deposits for permits to open streets for laying service pipes.....	42,802 00	
	<hr/>	57,207 00

Acc't Sidewalk General Repairs and Intersections.

Amount appropriated by Council.....	\$ 50,000 00	
Inspection.....	687 00	
	<hr/>	50,687 00
Carried forward.....		\$ 797,849 46

Brought forward.....		\$ 797,849 46
<i>Acc't Canal Street Bridge.</i>		
Appropriated by Council...	\$ 8,450 00	
Two lamps sold.....	25 00	
		8,475 00
<i>Acc't House-Moving Permits.</i>		
Amount received for house-moving permits.....	\$ 4,331 00	
		4,331 00
<i>Acc't Bridge-Viaduct Repairs.</i>		
Appropriated by Council...	\$ 125,500 00	
Scrap Iron.....	668 26	
Refund.....	4 00	
Chicago & North-Western..	19 16	
Repairs on Lake st. bridge..	15 68	
Damage to Harrison street bridge.....	16 65	
J. S. Dunbar, damages.....	24 18	
J. H. Polly, damage to Van Buren street bridge.....	19 07	
Schooner "Waverly," damage to bridge.....	4 20	
Empty barrels.....	22 85	
Chicago & North-Western, toward maintaining North State street viaduct.....	400 00	
Wabash R'y, repairs to Twelfth street viaduct...	228 08	
		126,022 13
<i>Acc't Public Buildings.</i>		
Appropriated by Council...	\$ 76,180 00	
Old carpet sold.....	45 00	
Public Library.....	739 00	
Castings.....	15 28	
		76,979 28
<i>Acc't Chicago Harbor.</i>		
Appropriated by Council...	\$ 84,000 00	
Dredging.....	432 80	
		85,332 80
Carried forward.....		\$1,099,889 67

Brought forward...		\$1,099,889 67
<i>Acc't Canal Pump Works.</i>		
Appropriated by Council...	\$ 67,000 00	
Received for empty barrels.	3 80	
		67,003 80
<i>Acc't Special Assessments.</i>		
Amount received from special assessment fund for cost of making and collecting special assessments, salaries and office expenses.....	\$ 284,683 57	
Amount received for use of steam roller.....	1,615 50	
From sewer fund, special warrants.....	1,689 50	
Inspection.....	154 00	
Voucher drawn in error....	90 00	
		288,232 57
<i>Miscellaneous appropriations.</i>		
For—		
Vessel dispatcher.....		2,400 00
Public benefits (improving intersections).....	\$ 425,000 00	
Receiver from Comptroller.	26,863 28	
		451,863 28
Fullerton avenue conduit (appropriated by Council)	\$ 15,000 00	
Empty barrels sold	138 47	
		15,138 47
Ogden ditch dam.....		1,000 00
Public parks (appropriated by Council)	\$ 8,000 00	
Miscellaneous.....	13 16	
		8,013 16
One-third salary and office expenses of Commissioner, secretary, book-keeper and others.....		9,813 33
City Engineer's office expenses		1,200 00
Carried forward.....		\$1,944,554 28

Brought forward.....		\$1,944,554 28	
Street Department office ex- penses		1,500 00	
Map Department office ex- penses.....		700 00	
Deficiency in collection of taxes		19,632 62	
Bureau of Light (empty bar- rels and broken posts)....		37 20	
<i>Acc't La Salle Street Tunnel.</i>			
Appropriated by Council...		5,500 00	
<i>Acc't Ninety-fifth Street Bridge.</i>			
Appropriated by Council...		13,400 00	
<i>Acc't Belmont Avenue Bridge.</i>			
Appropriated by Council...		6,800 00	
<i>Acc't Thirty-fifth St. Bridge.</i>			
Appropriated by Council...		23,700 00	
<i>Acc't Washington St. Tunnel.</i>			
Appropriated by Council...		5,500 00	
<i>Acc't California Ave. Bridge.</i>			
Appropriated by Council...		7,700 00	
<i>Acc't West Taylor Street Viaduct.</i>			
Pittsburg, Ft. Wayne & Chi- cago R'y.....	\$	8,445 80	
West Chicago Street R'y Co.		54,598 45	
Chicago, Burlington & Quincy R. R.....		12,456 66	
		<hr/>	75,500 91
<i>Acc't Ogden Avenue Viaduct.</i>			
Appropriated by Council...	\$	50,000 00	
Chicago & North-Western R'y		44,964 26	
Union Stock Yards		7,812 46	
		<hr/>	
Carried forward.....	\$	102,776 72	\$2,104,525 01

Brought forward.....	\$ 102,776 72	\$2,104,525 01
Pittsburg, Chicago & St.		
Louis R'y.....	6,928 00	
Miscellaneous... ..	15 00	
	<hr/>	109,719 72
<i>Acc't Western Avenue Bridge.</i>		
Appropriated by Council...	\$ 33,350 00	
Amount received from sundry parties to cover cost of removing street obstructions made by special deposits.	5,900 00	
Public Library, received from Comptroller	392 75	
World's Columbian Exposition, deposit to cover cost of enlargement of Sixty-eighth street pump. station	126,163 54	
Inspection account.....	310 00	
Rapid Transit Bridge Construction Co.....	1,500 00	
Palmer & Newberry	3,455 35	
Pittsburg, Ft. Wayne & Chicago R'y.....	845 53	
	<hr/>	171,917 17
<i>Acc't Salaries.</i>		
Appropriated by Council...	\$ 53,140 00	
Board of Education.....	55 00	
	<hr/>	53,195 00
<i>Acc't Bridge Tenders' Salaries.</i>		
Appropriated by Council...	\$ 85,898 00	
Street Lamp Fund—Broken lamps, empty barrels, etc.	462 55	
	<hr/>	86,360 55
	<hr/>	<u>\$2,525,717 45</u>
EXPENDITURES.		
<i>Acc't Improved Streets.</i>		
Paid for—		
Labor.	\$ 316,983 34	
Car fare.....	724 00	
Repair buggy.....	268 95	
Carried forward.....	\$ 317,976 29	

Brought forward.....	\$ 317,076 29	
Scoops and shovels.....	79 26	
Coal.....	77 58	
Printing.....	51 75	
Rent.....	855 58	
Brushes and brooms.....	1,188 18	
Tools.....	126 21	
Furniture repairs.....	9 75	
Removing dirt.....	82 00	
Use of scow.....	2,050 00	
Use of tug.....	350 00	
Rope.....	1 49	
Paints and oils.....	59 29	
Hardware.....	757 90	
Paving.....	15,875 04	
Hose.....	6 00	
Culled blocks.....	8,371 08	
Tools.....	111 23	
Advertising.....	16 25	
Castings.....	12 85	
Lumber.....	25,344 00	
Repairing curb wall.....	593 78	
Street cleaning, by contract.	148,452 91	
Miscellaneous.....	840 36	
Gravel.....	3,484 22	
Nails.....	2,728 90	
Sprinkling.....	437 00	
Cement.....	131 28	
Macadam.....	10,392 60	
Crushed stone.....	16,597 31	
Cedar posts.....	42 50	
Dredging.....	350 00	
Slag.....	354 53	
Lanterns and globes.....	7 14	
Stationery.....	315 24	
Deposit refunded.....	223 25	
Annual report.....	2,274 70	
		\$ 560,627 45
<i>Acct Unimproved Streets.</i>		
Paid for—		
Labor.....	\$ 249,466 38	
Lumber.....	10,021 48	
Carried forward.....	\$ 259,487 86	\$ 560,627 45

BOOK-KEEPER'S STATEMENT.

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Brought forward..... \$ 250,487 86 \$ 560,627 45

Car fare.....	62 17	
Hardware	267 75	
Repair harness and wagon..	8 70	
Cinders	1,227 82	
Tools	180 04	
Tools—repairs.....	128 30	
Coal.....	14 00	
Horse-feed	97 00	
Pick-handles.....	86 33	
Brick	119 30	
Rent.....	460 00	
Repairs	111 79	
Miscellaneous.....	258 20	
Brooms	18 00	
Nails	508 60	
Crushed stone.....	656 53	
Oil.....	17 91	
Cedar posts.....	28 92	
Slag	447 64	
Stationery.....	115 76	
Plumbing.....	8 75	
Gravel.. ..	30 40	
Macadam	3,410 89	
		267,812 66

Acc't Sidewalk General Repairs.

Paid for—

Labor.....	\$100,562 09	
Car fare.....	118 08	
Postage.....	36 21	
Repairs	845 45	
Advertising.....	43 75	
Lumber.....	7,039 99	
Miscellaneous.....	60	
Stationery	15 50	
Hardware.....	5 00	
		108,666 67
Carried forward.....		\$ 937,106 78

Brought forward..... \$ 937,106 78

Acc't Sidewalk Intersections.

Paid for—

Labor.....	\$ 35,713 15	
Crosswalks.....	2,892 56	
Lumber.....	6,828 23	
	<hr/>	45,433 94

Acc't Public Buildings, City Hall.

Paid for—

Furniture and carpets.	\$ 5,658 53	
Chandeliers	18 60	
Camphor.....	9 40	
Lamp fittings	39 66	
Oil, paint and grease.....	804 00	
Electric lamps, brushes and dynamo fittings	1,124 72	
Maps	21 00	
Labor	47,269 28	
Lumber	186 05	
Coal.....	20,751 96	
Soap, powder, etc.....	310 53	
Cement	37 50	
Boiler repairs.....	1,133 45	
Toweling.....	54 25	
Hardware	169 40	
Valves and valve repairs ...	40 85	
Ice	181 75	
Plumbing	448 82	
Engine supplies	242 81	
Glass	71 51	
Waste and packing	234 86	
Gas	4 40	
Elevator repairs.....	158 26	
Miscellaneous.....	81 61	
Rope	2 00	
Brooms and brushes	127 69	
Janitor's supplies.....	292 73	
Iron work and repairing....	2,377 21	
	<hr/>	
Carried forward.....	\$ 81,852 81	\$ 982,540 72

Brought forward.....	\$ 81,852 81	\$ 982,540 72
Cedar posts	9 00	
Decorating and cleaning walls.....	789 00	
Stationery.....	65 34	
Sash and doors	172 50	
Pails.....	28 80	
Awnings	145 00	
Fire brick	198 80	
One wire cage	125 00	
Steam fitting.....	154 97	
	<hr/>	83,541 22

Acc't Irving Park.

Paid for—		
Arbor.....	\$ 140 00	
Plumbing.....	20 00	
Miscellaneous.....	2 25	
	<hr/>	162 25

Acc't Ellis Park.

Paid for—		
Labor.....	\$ 1,027 60	
Paving	444 48	
Stone	7 00	
Sidewalk	110 52	
Lawn mower.....	9 25	
Hose	33 40	
Macadam	15 00	
Coal	24 92	
	<hr/>	1,672 15

*Acc't Douglas Monument
Square.*

Paid for—		
Repairing monument	\$ 30 00	
Earth.....	44 00	
Coal.....	24 92	
Labor.....	752 74	
Roofing	7 00	
Hose	37 20	
	<hr/>	
Carried forward.....	\$ 895 86	\$1,067,916 34

Brought forward.....	\$	895 86	\$1,067,916 34
Seed.....		18 08	
Trees.....		240 00	
			1,153 94
<i>Acc't Lake Park.</i>			
Paid for—			
Labor.....	\$	214 50	
			214 50
<i>Acc't Bickerdike Square.</i>			
Paid for—			
Lawn mower.....	\$	6 00	
Seed.....		12 75	
Sodding.....		315 20	
Labor.....		415 50	
			749 45
<i>Acc't Gross Park.</i>			
Paid for—			
Plumbing.....	\$	60 50	
			60 50
<i>Acc't Jefferson Park.</i>			
Paid for—			
Lawn mower.....	\$	8 95	
Miscellaneous.....		2 24	
Supplies.....		3 00	
Cement.....		3 00	
Hose and coupling.....		46 00	
Labor.....		355 48	
			418 67
<i>Acc't Aldine Square.</i>			
Paid for—			
Supplies.....	\$	20 25	
Rakes.....		8 42	
Hose.....		36 28	
Coal.....		36 92	
Labor.....		668 06	
			769 93
Carried forward.....			\$1,071,283 33

BOOK-KEEPER'S STATEMENT.

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Brought forward..... \$1,071,283 33

Washington Square.

Paid for—

Labor	\$ 1,358 75	
Sprinkling	371 50	
Seed	8 25	
Trees	375 00	
Repairs	18 89	
Lawn mower	8 28	
	<hr/>	2,140 67

Shedds Park.

Paid for—

Supplies	\$ 3 57	
Labor	205 50	
Wheelbarrow	65	
Hose	13 90	
Plants	20 64	
	<hr/>	244 26

Acc't Oak Park.

Paid for—

Labor	\$ 3 00	
	<hr/>	3 00

Acc't Union Square.

Paid for—

Lumber	\$ 122 59	
Paint	12 33	
Sodding	80 00	
Washers	5 25	
Labor	510 50	
Trees	150 00	
	<hr/>	880 67

Acc't Green Bay Park.

Paid for—

Labor	\$ 6 00	
	<hr/>	6 00

Carried forward..... \$1,074,557 93

Brought forward..... \$1,074,557 93

Acc't Viaduct Repairs.

Paid for—

Miscellaneous.....	\$	324 54	
Labor.....		3,189 20	
Damages.....		460 00	
Iron work.....		228 08	
Lumber		71 22	
		<hr/>	4,273 04

Acc't Bridge Repairs.

Paid for—

Labor.....	\$	68,212 27	
Car fare.....		143 64	
Stationery.....		308 10	
Coal.....		6,564 09	
Oil, paint and grease.....		2,531 36	
Earth filling		187 20	
Damages		2,135 83	
Bolts.....		290 22	
Hardware.....		987 22	
Tug service.....		25 00	
Lumber.....		18,560 56	
Lamps and tinware.....		213 84	
Blacksmithing.....		55 38	
Nails.....		567 74	
Iron work.....		3,747 14	
Advertising.....		32 00	
Machine work.....		4,802 94	
Miscellaneous.....		350 02	
Supplies.....		258 53	
Windows and doors.....		18 05	
Glass.....		15 41	
Waste, belting, rope and packing		365 58	
Brooms and brushes.....		137 49	
Tar and felt		105 00	
Roofing.....		105 70	
Stone and sand.....		110 72	
Pile driving and dredging...		2,260 31	
Carried forward.....	\$	113,100 34	\$1,078,830 97

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 113,100 34	\$1,078,830 97
Jacks.....	51 89	
Wheels.....	307 86	
Repairs.....	2,922 76	
Soap and candles.....	69 59	
Tools.....	268 83	
Building office.....	25 00	
Lead.....	31 81	
Plumbing.....	65 91	
Signal ball, and bell.....	11 00	
Gaskets.....	96 61	
Re-paving.....	1,884 54	
	<hr/>	118,836 14

Acc't Chicago Harbor.

Paid for—		
Labor.....	\$ 20,959 88	
Car fare.....	69 14	
Transferred to unimproved streets.....	30,000 00	
Stationery.....	351 75	
Postage.....	2 54	
Lumber.....	28 00	
Tug service.....	104 47	
Repairs.....	38 35	
Stone and sand.....	28 75	
Printing.....	59 10	
Advertising.....	11 50	
Tools.....	68 00	
Repairing dock.....	609 85	
Hardware.....	19 41	
Miscellaneous.....	44 81	
Blue prints.....	7 67	
Moving bridge.....	10 00	
Dredging.....	48,410 11	
	<hr/>	100,823 33

Acc't Fullerton Avenue Conduit.

Paid for—		
Labor.....	\$ 8,317 16	
Coal.....	7,595 63	
	<hr/>	
Carried forward.....	\$ 15,912 79	\$1,298,490 44

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$	15,912 79	\$1,298,490 44
Waste, grease and packing..		140 16	
Oil and paint.....		315 09	
Car fare.....		3 40	
Repairing scale.....		12 07	
Soap, etc.....		3 30	
Gaskets		2 95	
Gas.		251 80	
Lead.....		1 75	
Fire brick.....		13 25	
Miscellaneous.....		10 40	
Potatoes.....		44 30	
Repairs.....		56 91	
Iron work.....		1 09	
Hardware.....		10 85	
Valves		1 34	
Plumbing.		8 05	
Hose		14 98	
Brooms and brushes.....		6 55	
			16,811 03

Acc't Canal Pumping Works.

Paid for—

Siphon burners.....	\$	200 00	
Miscellaneous.....		40 49	
Labor.....		27,708 30	
Car fare.....		25 71	
Coal.....		30,574 55	
Hardware.....		68 94	
Oil and paint.....		1,263 54	
Glass, etc.....		1 42	
Bolts.....		8 58	
Waste, packing and rope...		874 19	
Steam-fitting.....		20 37	
Advertising.....		31 75	
Boiler repairs.....		1,607 10	
Pipe fittings.....		15 81	
Tools.....		74 81	
Smoke-burner.....		2,333 25	
Soap, etc.....		43 06	
Repairing tools.....		11 65	
Carried forward.	\$	64,903 52	\$1,315,301 47

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 64,903 52	\$1,315,301 47
Blacksmithing	56 78	
Valves and fittings	103 26	
Iron work.....	1,149 95	
Oil pump.....	5 85	
Castings.....	20 62	
Brooms and brushes	37 76	
Ice	33 45	
Hose	6 78	
Roofing.....	534 23	
Machine work.....	288 92	
Oil cans.....	124 10	
Cement and lime.....	50 10	
New boiler.....	5,000 00	
Sand, brick and clay.....	183 00	
Supplies.....	22 05	
Lumber.....	199 05	
Gaskets	83 00	
		72,802 42

Acc't Madison Street Bridge.

Paid for—

Labor....	\$ 8,182 79	
Drawing material.....	3 47	
Lumber	17 28	
Use of scow.....	1,846 40	
Labor.....	711 32	
Machine work.....	62 41	
Car fare.....	5 00	
Roofing.....	16 35	
Blue print.....	8 46	
Iron work.....	8,754 04	
Pile-driving.....	1,141 30	
Teaming	88 20	
Printing.....	21 50	
Tools	10 00	
Blacksmithing.....	5 16	
Stationery.....	10 00	
Miscellaneous.....	1 00	
Sub-structure.....	61,881 49	
Super-structure.....	42,447 54	
Advertising.....	14 75	
Carried forward.....	\$ 125,228 46	\$1,388,103 89

Brought forward.....	\$ 125,228 46	\$1,388,103 89
Paving.....	859 13	
Railing.....	50 00	
Granite.....	402 00	
Paint.....	2 31	
Excavating.....	290 37	
	<hr/>	126,832 27

Acc't Western Avenue Bridge.

Paid for—		
Sub-structure.....	\$ 26,208 10	
Labor.....	1,132 53	
Super-structure.....	3,530 00	
Lumber.....	384 00	
Stone.....	370 53	
Hardware.....	40	
Printing.....	30 74	
	<hr/>	31,656 30

Acc't Thirty-fifth Street Bridge.

Paid for—		
Labor.....	\$ 2,064 73	
Blue print.....	14 76	
Sub-structure.....	9,041 52	
Advertising.....	8 60	
Super-structure.....	10,045 00	
Stone.....	883 99	
Re-paving.....	303 50	
	<hr/>	22,362 10

Acc't Ogden Ditch Dam.

Paid for—		
Labor.....	\$ 2,417 19	
Filling and repairing.....	359 00	
Lumber.....	496 98	
Hardware.....	90 25	
Miscellaneous.....	3 00	
Cement.....	43 50	
Stone.....	14 18	
	<hr/>	3,424 10
Carried forward.....		\$1,572,378 66

Brought forward..... \$1,572,378 66

Acc't Vessel Dispatcher.

Paid for—

Salary.....	\$	2,041 94	
			2,041 94

Acc't City Engineer's Office Expense.

Paid for—

Car fare.....	\$	798 25	
Postage.....		22 63	
Repairs.....		3 00	
Horse keep and shoeing....		94 50	
Labor.....		43 46	
Drawing material.....		92 75	
Office fixtures.....		96 20	
Hardware.....		6 75	
Blue print.....		64 67	
Printing.....		43 50	
Map.....		130 00	
Express charges.....		9 65	
Water Cooler.....		6 30	
Miscellaneous.....		228 26	
Stationery.....		540 74	
			2,180 66

Acc't Map Office Expense.

Paid for—

Stationery.....	\$	364 35	
Labor.....		26 00	
Postage.....		6 35	
Drawing material.....		235 25	
Directory.....		6 00	
Miscellaneous.....		1 04	
			638 99

Acc't Appropriation of Commissioner's Office Expense.

Paid for—

Stationery.....	\$	672 89	
Printing.....		122 14	
Binding.....		27 00	
Carried forward.....	\$	822 03	\$1,577,240 25

Brought forward.....	\$	822 03	\$1,577,240 25
Car fare.....		493 37	
Labor.....		226 43	
Account of Annual Report...		1,307 00	
Postage.....		75 17	
Express charges.....		40	
Miscellaneous.....		185 42	
Horse keep.....		36 00	
			3,145 82

Acc't Canal Street Bridge.

Paid for—

Super-structure.....	\$	14,188 11	
Labor.....		1,658 42	
Sub-structure.....		924 81	
Teaming.....		10 00	
Lumber.....		199 71	
Earth filling.....		391 20	
Machine work.....		59 07	
			17,431 32

Acc't Washington Street Bridge.

Paid for—

Turn-table rack.....	\$	350 00	
Machine work.....		55 11	
Plumbing.....		177 99	
Pile driving.....		282 20	
Labor.....		1,651 08	
Super-structure.....		19,184 54	
Re-paving.....		52 60	
Blue print.....		2 88	
			21,756 40

Acc't Morgue.

Paid contractor.....	\$	10,000 00	
			10,000 00

Acc't Taylor Street Bridge.

Paid for—

Labor.....	\$	3,826 14	
Repairs.....		77 60	
Carried forward.....	\$	3,903 74	\$1,629,573 79

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$	3,903 74	\$1,629,573 79
Sub-structure.....		20,463 12	
Machine work.....		1,464 29	
Miscellaneous.....		10 80	
Pile driving.....		212 20	
Printing.....		14 50	
Earth filling.....		212 45	
Blue print.....		68 87	
Castings.....		115 35	
Lumber.....		929 19	
Hardware.....		29 15	
Lead.....		4 37	
			27,428 03

Acc't Weed Street Bridge.

Paid for—

Labor.....	\$	302 75	
Paid contractor.....		8,296 00	
Roofing.....		10 00	
			8,608 75

Acc't Ninety-fifth Street Bridge.

Paid for—

Labor.....	\$	1,118 55	
Sub-structure.....		11,564 84	
Super-structure.....		13,200 00	
Earth filling.....		993 20	
Building sidewalk... ..		60 00	
Blue print.....		1 50	
Iron work.....		162 11	
Stone		1,918 90	
Machine work.....		74 85	
			29,093 95

Street Department Office Expense.

Paid for—

Stationery.....	\$	209 00	
Car fare.....		236 05	
Printing.....		257 35	
Carried forward.....	\$	702 40	\$1,694,704 52

Brought forward.....	\$	702 40	\$1,694,704 52
Labor.....		200 00	
Miscellaneous.....		57 23	
Postage.....		48 51	
Advertising.....		3 00	
			1,011 14

Acc't Salaries.

Paid for—

Employes Street Department.....	\$	20,931 85	
Employes City Engineer's Department.....		15,363 42	
Employes Map Department.....		15,120 48	
Miscellaneous.....		2,036 63	
			53,452 38
One-third salary Commissioner, secretary, bookkeeper and others.....			6,279 15
Bridge tenders' salary.....			88,318 12

Acc't Street Permits.

Paid for—

Labor.....	\$	10,354 77	
Car fare.....		194 60	
Paving.....		522 69	
Rebates.....		45 00	
Printing.....		38 35	
			11,155 31

Acc't House Moving Permits.

Paid for—

Labor ...	\$	2,251 54	
Printing.....		58 50	
Stationery		12 50	
Rebates.....		50 00	
			2,372 54

Acc't Permit Deposits.

Rebates to depositors.....	\$	29,614 57	
			29,614 57
Carried forward.....			\$2,886,907 73

Brought forward.....		\$2,886,907 73	
<i>Acc't Public Benefits.</i>			
City proportion of improv- ing street intersections...	\$ 454,308 89		
			454,308 89
<i>Acc't Belmont Avenue Bridge.</i>			
Paid for—			
Labor.....	\$ 374 05		
Lumber	4 21		
Advertising.....	31 75		
Stationery.....	2 60		
			412 61
<i>Acc't Special Assessments.</i>			
Paid for—			
Coal.....	\$ 515 37		
Furniture	35 00		
Advertising.....	14,261 55		
Labor	120,168 72		
Stationery.....	2,370 18		
Miscellaneous.....	1,654 74		
Making assessments.....	9,220 00		
Experts' services.....	11,385 00		
Car fare.....	917 11		
Legal expenses.....	4,907 00		
Supply	51 67		
Waste, paint and oil.....	57 82		
Map	15 00		
Collecting assessments.....	54,626 75		
Postage	13 56		
Repairing steam roller....	932 70		
Postal cards	169 25		
Filing permits.....	192 00		
Horse and buggy	149 00		
Stenographers' services	1,555 50		
Sheriff fees	355 40		
Clerk of County Court copy- ing rolls.....	9,070 00		
Commissioners making as- sessments.....	49,439 89		
Directory	6 00		
			282,075 21
Carried forward.....		\$3,623,704 44	

Brought forward.....

\$3,623,704 44

Acc't Ogden Avenue Viaduct.

Paid for—

Designing and drawing.....	\$	1,600 00
Super-structure		51,172 38
Hardware ..		5 55
Labor		4,902 74
Blue print.....		21 61
Miscellaneous.....		5 00
Printing and stationery.....		45 75
Damages.....		300 00
Car fare.....		8 60
Advertising.....		22 75
Sub-structure		65,513 85

123,598 23
*Acc't California Avenue
Bridge.*

Paid for—

Labor	\$	836 76
Specifications.....		7 20
Sub-structure		4,516 30
Advertising.....		22 50
Hardware		1 10

5,383 86
*Acc't West Taylor Street
Viaduct.*

Paid for—

Expert's services	\$	400 00
Advertising.....		39 25
Sub-structure		40,425 26
Damages.....		4,301 00
Labor.....		3,364 90
Super-structure		41,528 69
Labor		248 41
Blue print.....		3 71
Miscellaneous.....		7 62

90,318 84

Carried forward....

\$2,843,005 37

BOOK-KEEPER'S STATEMENT.

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Brought forward.....		\$2,843,005 37	
<i>Acc't North Avenue Viaduct.</i>			
Estimate cost of raising old grade to new grade of approach.....	\$ 399 00		399 00
<i>Acc't West Division Street Viaduct.</i>			
Estimate cost of raising old grade to new grade of approach.....	\$ 301 00		301 00
<i>Special Deposits.</i>			
Amount refunded to sundry parties to cover cost of removing street obstruc- tions, made by special de- posit.....	\$ 3,862 50		3,862 50
<i>Acc't Public Library.</i>			
For elevator service from July to December	\$ 392 75		392 75
<i>Acc't Board of Education.</i>			
For elevator service, from September to December	\$ 2 50		2 50
<i>Acc't World's Columbian Ex- position, for the Enlarge- ment of Sixty-eighth Street Pumping Station.</i>			
Paid for—			
Labor.....	\$ 4,794 87		
Tunnel work....	26,671 79		
Moving house.....	200 00		
Blue print.....	151 59		
Constructing sewer.....	2,809 04		
Carried forward.....	\$ 34,627 29	\$2,847,963 12	

DEPARTMENT OF PUBLIC WORKS.

Brought forward.....	\$	34,627 29	\$2,847,963 12
Advertising.....		52 75	
New engine.....		70,500 00	
Mason work		110 00	
Foundations.....		6,994 80	
Stationery		32 35	
Iron work.....		29 30	
		<hr/>	112,346 49

Acc't Bureau of Light.

Paid for—

Car fare.....	\$	12 94	
Labor.....		3,485 26	
		<hr/>	3,498 20

MISCELLANEOUS EXPENDITURES.

Mutual Gas and Fuel Com- pany (refund).....	\$	1,000 00	
New York, Chicago & St. Louis Railway.....		255 00	
Madison & Northern Rail- way.....		188 22	
Rapid Transit Bridge & Con- struction Company.....		1,199 99	
Palmer & Newberry.....		3,184 77	
Pittsburg, Ft. Wayne & Chi- cago Railway (for side- walk)		845 52	
Simons & Gordon (refund).		46 67	
Inspection account.....		1,255 00	
LaSalle street tunnel inspec- tion		32 13	
Washington street tunnel in- spection.....		29 12	
Eighteenth street viaduct (expert's services).....		100 00	
Halsted street viaduct (ex- pert's services)		120 00	
		<hr/>	8,256 42
			<hr/> <hr/>
			\$2,972,064 23

TRIAL BALANCE.

LEDGER, DEPARTMENT PUBLIC WORKS, CHICAGO,
DECEMBER 31, 1891.

	<i>Dr.</i>	<i>Cr.</i>
Water fund.....	\$ 225,548 58	
Water works.....	19,061,268 12	
Water works, income.....		\$ 27,500,511 37
Water fund, general taxes.....		2,713,878 53
Annexed territory.....		197,525 48
Water loan bonds, 6 per cent.....		132,000 00
Water loan bonds, 7 per cent.....		2,847,000 00
Water loan bonds, 4 per cent.....		309,500 00
Water loan bonds, $3\frac{5}{8}$ per cent... ..		332,000 00
Water loan bonds, $3\frac{1}{2}$ per cent.....		333,500 00
Water loan bonds, canceled.....		875,000 00
Water fund, investment.....		1,000,000 00
Water loan, interest.....	7,339,056 39	
Hyde Park bonds, 5 per cent.....		50,000 00
Hyde Park bonds, 7 per cent.....		384,000 00
Town of Lake bonds, 5 per cent.....		164,900 00
Town of Lake bonds, 7 per cent.....		222,000 00
Water works expense and repairs.....	10,745,133 16	
Lake View loan bonds, 4 per cent.....		50,000 00
Lake View loan bonds, 5 per cent. ...		23,000 00
Lake View loan bonds, 7 per cent.....		75,000 00
American Exchange National Bank....	116,420 27	
J. Hardacre.....	100 00	
J. W. Lyons, cashier.....	1,691 88	
Meter Department, stock account.....	7,699 02	
Water works, shop account.....	6,369 33	
Tapping Department, stock account....	4,865 99	
Michigan avenue property.....	980 03	
Advances		297,520 57
Hydrant wrenches.....		1,796 82
Sewer fund.....	38,411 59	
Carried forward.....	\$ 37,547,544 36	\$ 37,509,132 77

Brought forward.....	\$ 37,547,544 36	\$ 37,509,132 77
Annexed territory.....		2,614,224 75
Sewers constructed by Special Assessment Department.....		2,059,673 34
Sewer surplus account.....		5,500 00
Sewers, North Division.....	2,321,050 31	
Sewers, South Division.....	4,607,186 58	
Sewers, West Division.....	5,570,257 50	
Sewer pipe.....	3,463 85	
Sewer brick.....	104 86	
Wooden covers.....	7,183 39	
Iron covers.....	491 00	
Cement.....	63 25	
Sand.....	85 00	
Sewerage, private work.....		573 61
Sewerage loan bonds, 4 per cent.....		845,000 00
Sewerage loan bonds, 7 per cent.....		1,268,000 00
Sewerage loan bonds, 4½ per cent....		489,500 00
Sewerage loan bonds, canceled.....		377,500 00
Sewerage fund, general taxes.....		5,099,576 64
General fund.....	382 55	
Suspense account.....	111,548 77	
Advances.....		14,588 77
Deficiency in collection of taxes.....		2,615 27
Sewerage, stock account.....	9,000 00	
Sixty-ninth street pump. works (sewer)	3,999 65	
Sewerage maintenance account.....	123,524 08	
Appropriation fund.....		198,242 96
Town of Jefferson.....	2,100 00	
Improved streets.....	105,361 36	
Inspection account.....		97 50
Chicago, Madison & Northern Railroad		188 22
Palmer & Newberry.....		270 58
Rapid Transit & Bridge Construction Company.....		333 35
Western Paving & Supply Company...		200 00
Simmons & Gordon.....		29 16
Sidewalk intersections.....	3,557 09	
Sidewalk general repairs.....	82,979 67	
Public benefits.....	170 91	
Bureau of Light.....	3,461 00	
Chicago harbor.....	15,068 67	
Carried forward.....	\$ 50,518,583 85	\$ 50,505,246 92

BOOK-KEEPER'S STATEMENT.

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Brought forward.....	\$ 50,518,583 85	\$ 50,505,246 92
Fullerton avenue conduit.....	1,672 56	
Canal pump. works extension.....		51,187 63
Canal pump. works.....	5,798 62	
Weed street bridge.....	533 25	
Ninety-fifth street bridge.....	17,873 95	
Belmont avenue bridge.....		6,387 39
Thirty-fifth street bridge.....		1,337 90
California avenue bridge.....		2,816 14
Eighteenth street viaduct.....	100 00	
Ashland avenue viaduct.....	120 00	
Permit depositors.....		17,440 89
Street Department, stock account.....	5,982 32	
R. A. Smith, cashier.....	1,500 00	
Deficiency in collection of taxes.....	9,409 47	
Ogden ditch dam.....	2,424 10	
Taylor street bridge.....	19,205 69	
Clark street bridge.....		6,759 10
West Taylor street viaduct.....	14,817 93	
Ogden avenue viaduct.....	13,878 51	
Webster avenue bridge.....		4,047 67
Western avenue bridge.....	416 25	
Washington street bridge.....		2,440 81
North avenue viaduct.....	399 00	
West Division street viaduct.....	301 00	
Special deposits		2,037 50
Board of Education.....	2 50	
World's Columbian Exposition.....		13,817 05
	<u>\$50,613,019 00</u>	<u>\$50,613,019 00</u>

Respectfully submitted,

EDWARD F. HAMILTON,

Book-keeper.







**This book is under no circumstances to be
taken from the Building**

[illegible]

